

### **A healthier chip?**

**Ubar, Raimund-Johannes; Fridolin, Ivo; Meigas, Kalju; Min, Mart** Public service review : European Union 2010 / p. 132-133 : ill

### **A lock-in distortion analyser**

**Land, Raul; Min, Mart; Männama, Vello; Parve, Toomas** 9th International Symposium on Electrical Instruments in Industry, September 8-9, 1997, Glasgow, Scotland : proceedings 1997 / p. 149-152

### **A method for design of the time optimal third order phase locked loop**

**Min, Mart** 7th proceedings of the European Conference on Circuit Theory and Design. Prague, Czechoslovakia, 2 - 6 Sept. 1985. P. 1 1985 / p. 325-328

### **A method for estimation of cardiac energy balance**

**Kink, Andres; Min, Mart; Parve, Toomas** Book of abstracts of the 5th Conference of the ESEM : Barcelona, Spain, May 30-June 2, 1999 1999 / p. 489-490

### **A sampling multichannel bioimpedance analyzer for tissue monitoring**

**Min, Mart; Land, Raul; Märten, Olev; Parve, Toomas; Ronk, Ants** Proc. of the 26. Annual International Conference of the IEEE EMBS : September 1-5, 2004, San Francisco, California, USA 2004 / p. 902-905

### **A virtual system for simultaneous multi-frequency measurement of electrical bioimpedance**

**Gordon, Rauno; Land, Raul; Min, Mart; Parve, Toomas; Salo, R.W.** International journal of bioelectromagnetism 2005 / 2, Special issue : 2005 conference proceedings : Proceedings of the 5th International Conference on Bioelectromagnetism and 5th Conference on Noninvasive Functional Source Imaging BEMAMPNFSI 2005 : May 12-15, 2005, Minneapolis, Minnesota, USA, p. 243-246

### **Aasta vilistlane Mart Min: sügised aastatel 1992 ja 2020 on üsna sarnasteks osutunud**

**Min, Mart** Mente et Manu 2020 / lk. 60-61 : portr <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

### **AC measurement converters : analog and digital solutions**

**Märten, Olev** 2000 [http://www.ester.ee/record=b1707866\\*est](http://www.ester.ee/record=b1707866*est)

### **Adaptive algorithm for cardiac period normalization in time**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul;** Uuetoa, Tiina; Lamp, Jürgen Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 66

### **Adaptive control of frequency and phase in vector analyzer**

**Min, Mart; Ronk, Ants; Sillamaa, Hanno** 5th TC7 Symposium on Intelligent Measurement : Jena, German Democratic Republic, June 10-14, 1986, proceedings 1988 / p. 251-256

### **Adaptive control of frequency and phase in vector analyzer**

**Min, Mart; Ronk, Ants; Sillamaa, Hanno** Intelligent measurement : 5th International IMEKO Symposium; June, 10 - 14, 1986. vol. 2 1986 / p. 200-202

### **An adaptive filtering system for separation of cardiac and respiratory components of bioimpedance signal**

**Krivošei, Andrei; Min, Mart; Parve, Toomas; Ronk, Ants** 2006 IEEE International Workshop on Medical Measurement and Applications : Benevento, Italy, April 20-21, 2006 2006 / p. 10-15 <https://ieeexplore.ieee.org/document/1644448>

### **Adaptive frequency control in the phase synchronization measurement system**

**Min, Mart; Rüstern, Ennu; Ronk, Ants; Sillamaa, Hanno** Preprints 11th IFAC World Congress "Automatic Control in the Service of Mankind" : Tallinn, Estonia, USSR, August 13-17, 1990. Vol. 4 1990 / p. 161-167

### **An adaptively tunable model of the cardiac signal for the bio-impedance signal decomposer (BISD)**

**Krivošei, Andrei; Kukk, Vello; Min, Mart** MeMeA 2008 : IEEE International Workshop on Medical Measurements and Applications : 9-10 May 2008, Ottawa, Ontario, Canada 2008 / p. 49-52

### **Advantages and limitations of an approach to bioimpedance data acquisition and processing relying on fast low bit rate ADCs**

**Bilinskis, Ivars; Sudars, K.; Min, Mart; Annus, Paul** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 245-248 : ill

### **Ahaa! Ohoo! - innovatsioonist ja muustki : kõne Eesti Vabariigi 91. aastapäeva aktusel 20. veebruaril 2009 TTÜ aulas**

**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 237-239

### **Ahaa! Ohoo! Innovatsioonist ja muustki : [intervjuu Mart Min'iga]**

**Min, Mart; Ummelas, Mart** *Mente et Manu* 2009 / 6. märts, lk. 2 : portr [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **An ASIC for multifrequency bioimpedance analysis**

**Min, Mart; Holmström, Nils; Järverud, Karin; Land, Raul; Märten, Olev; Parve, Toomas** *Proceedings of the XI International Conference on Electrical Bio-impedance* : June 17-21, 2001, Oslo, Norway 2001 / p. 251-254 : ill

#### **An electrical bioimpedance analyzer for implantable medical devices**

**Min, Mart; Parve, Toomas** *Proceedings of the 22nd IEEE Instrumentation and Measurement Technologies Conference of the IEEE IMT IMTC 2005* : Ottawa, Ontario, Canada, 17-19 May, 2005. Vol. III 2005 / p. 1823-1828

#### **An extended block-adaptive Fourier analyser for analysis and reproduction of periodic components of band-limited discrete-time signals**

**Ronk, Ants** 2002 [http://www.ester.ee/record=b1688702\\*est](http://www.ester.ee/record=b1688702*est)

#### **An implantable analyzer of bioimpedance dynamics : mixed signal approach**

**Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo** *IEEE transactions on instrumentation and measurement* 2002 / 4, p. 674-678

#### **An implantable analyzer of bio-impedance dynamics : mixed signal approach**

**Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo** *IMTC/2001 : proceedings of the 18th IEEE Instrumentation and Measurement Technology Conference : Rediscovering Measurement in the Age of Informatics* : Budapest, Hungary, 21-23 May, 2001. Volume 1 2001 / p. 38-43 : ill

#### **An instrument for electrical bio-impedance based cardiac and respiratory monitoring**

**Eek, Andres; Härm, Härmo; Min, Mart; Parve, Toomas** *10th Nordic-Baltic Conference on Biomedical Engineering. Satellite Symposium on Bioelectromagnetic and Biomechanic Measurements*, June 13-15, 1996, Tallinn, Estonia 2011 / p. 29-30: ill

#### **An instrument for measurement of vector parameters of electrical bio-impedance**

**Min, Mart; Parve, Toomas; Eek, Andres; Martin, Hannes** *Proceedings of the IX International Conference on Electrical Bio-Impedance in conjunction with the European Community Concerted Action on Impedance Tomography* : September 26-30, 1995, Heidelberg/Germany 1995 / p. 40-43

#### **An overview about electronic baby monitors used in sleep medicine [Võrguteavik] : data acquisition methods and electronic sensing principles**

**Kala, Raul; Min, Mart** 2021 [https://www.ester.ee/record=b5406071\\*est](https://www.ester.ee/record=b5406071*est) <https://digikogu.taltech.ee/et/Item/80428984-68a6-4f6c-94d1-f901b1248618>

#### **An overview of the impedance models of the thorax and the origin of the impedance cardiography signal for modelling of the impedance signals**

**Mughal, Yar M.; Annus, Paul; Min, Mart; Gordon, Rauno** *2014 IEEE International Conference on Biomedical Engineering and Sciences* : 8th-10th December 2014, Miri-Malaysia : conference proceedings 2014 / p. 526-531 : ill

#### **Analog interface for electrical bio-impedance measurement unit**

**Min, Mart; Parve, Toomas; Lemendik, Laur** *BEC'96 : the 5th Biennial Baltic Electronics Conference*, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 199-202: ill

#### **Analysis of instantaneous cardiac EBI signal variability over the heart cycle(s) : non-linear time-scale approach**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Kõiv, Hip; Aabloo, Alvo; Uuetoa, Tiina** *EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC)*, Tampere, Finland, June 2017 2018 / p. 940-943 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_235](https://doi.org/10.1007/978-981-10-5122-7_235)

#### **Application of artificial neural networks to model the interaction between T-cells and B-cells and their equivalent impedance of the linearized model**

**Giannoukos, Georgios; Min, Mart** *Journal of computational methods in sciences and engineering* 2015 / p. 295-302 <http://dx.doi.org/10.3233/JCM-150544>

#### **Aspects of using chirp excitation for estimation of bioimpedance spectrum**

**Paavle, Toivo; Min, Mart; Parve, Toomas** *Fourier transform - signal processing* 2012 / p. 237-256 : ill [https://www.researchgate.net/publication/224830116\\_Aspects\\_of\\_Using\\_Chirp\\_Excitation\\_for\\_Estimation\\_of\\_Bioimpedance\\_Spectrum](https://www.researchgate.net/publication/224830116_Aspects_of_Using_Chirp_Excitation_for_Estimation_of_Bioimpedance_Spectrum)

#### **Assurance of gain stability of spaceborne teleradiometers**

**Veismann, Uno; Min, Mart** *BEC : Baltic Electronics Conference* : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 179-185: ill

#### **At-speed self-testing of high-performance pipe-lined processing architectures [Electronic resource]**

**Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart** *31st Norchip Conference*

: Vilnius, Lithuania, 11-12 November 2013 : conference program and papers 2013 / p. 1-6 : ill [USB]

**Automatic detection of real and imaginary parts of electrical impedance with single synchronous demodulation channel**  
**Annus, Paul; Priidel, Eiko; Land, Raul; Metshein, Margus; Krivošei, Andrei; Min, Mart; Ratassepp, Madis; Märten, Olev** 8th European Medical and Biological Engineering Conference : Proceedings of the EMBEC 2020, November 29 - December 3, 2020 Portorož, Slovenia 2021 / p. 151-157 [https://doi.org/10.1007/978-3-030-64610-3\\_18](https://doi.org/10.1007/978-3-030-64610-3_18) [Conference Proceedings at Scopus Article at Scopus](#)

**Availability and variations of cardiac activity in the case of measuring the bioimpedance of wrist**  
**Metshein, Margus; Annus, Paul; Land, Raul; Min, Mart;** Aabloo, Alvo 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409684>

**BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia)**  
**Rang, Toomas; Min, Mart; Ubar, Raimund-Johannes** 1994

**BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings**  
**Rang, Toomas; Min, Mart; Ubar, Raimund-Johannes** 1996

**A benchmark suite for evaluating the efficiency of test tools**  
**Kruus, Helena; Ubar, Raimund-Johannes; Ellervee, Peeter; Gorev, Maksim; Pesonen, Vadim; Devadze, Sergei; Orasson, Elmet; Brik, Marina; Min, Mart; Annus, Paul; Kruus, Margus; Meigas, Kalju** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 85-88 : ill

**Binary signals in impedance spectroscopy**  
**Min, Mart; Ojarand, Jaan; Märten, Olev; Paavle, Toivo; Land, Raul; Annus, Paul; Rist, Marek; Reidla, Marko; Parve, Toomas** Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference 2012 / p. 134-137 : ill

**Bioimpedance and spectroscopy**  
2021 <https://doi.org/10.1016/C2018-0-04440-0>

**Bioimpedance based analysis of tissue oedema**  
**Kink, Andres; Min, Mart; Parve, Toomas; Rätsep, Indrek** Proceedings of the XII International Conference on Electrical Bioimpedance & the V Conference on Electrical Impedance Tomography : ICEB/EIT 2004 : June 20-24, 2004, Gdansk, Poland. Vol. 1 2004 / p. 29-32

**Bioimpedance based control of rate limit in artificial cardiac pacing**  
**Min, Mart;** Kink, Andres; **Parve, Toomas; Rätsep, Indrek** Proceedings of the IASTED International Conference on Biomedical Engineering BioMED 2005 : February 16-18, 2005, Innsbruck, Austria 2005 / p. 679-703

**Bioimpedance based fuzzy control of cardiac pacing**  
**Min, Mart; Parve, Toomas** Catalog of the exhibition "Information Society Technologies" (IST'98), 30 Nov. - 2 Dec. 1998, Vienna, Austria 1998 / [1] p

**Bioimpedance monitoring of tissue transplants**  
**Min, Mart; Annus, Paul; Land, Raul; Paavle, Toivo; Haldre, Eero; Ruus, Rein** Proceedings of the 24th IEEE Instrumentation and Measurement Technology Conference IMTC 2007 : Warsaw, Poland, May 1-3, 2007 2007 / [4] p

**Bioimpedance monitoring with improved accuracy using three-level stimulus**  
**Paavle, Toivo; Annus, Paul; Kuusik, Alar; Land, Raul; Min, Mart** Proceedings of European Conference on Circuit Theory and Design 2007 (ECCTD'07) : Seville, Spain, August 26-30, 2007 2007 / p. 412-415

**Bioimpedance sensing - a viable alternative for tonometry in non-invasive assessment of central aortic pressure**  
**Min, Mart; Annus, Paul; Kõiv, Hip; Krivošei, Andrei; Uuetoa, Tiina; Lamp, Jürgen** 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA) : May 7-10, 2017, Rochester, MN, USA : proceedings papers 2017 / p. 373-378 : ill <https://doi.org/10.1109/MeMeA.2017.7985905>

**Bioimpedance sensors : instrumentation, models, and applications**  
Naranjo-Hernández, David; Reina-Tosina, Javier; Buendía, Rubén; **Min, Mart** Journal of Sensors 2019 / art. 5078209 <https://doi.org/10.1155/2019/5078209> [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

**Bioimpedance spectro-tomography system using binary multifrequency excitation [Online resource]**  
**Min, Mart;** Lehti-Polojärvi, M.; Hyttinen, Jari; **Rist, Marek; Land, Raul; Annus, Paul** International journal of bioelectromagnetism Proceedings of the 11th International Conference on Bioelectromagnetism : 23-25 May 2018, Aachen, Germany 2018 / p. 76-79 : ill <http://www.ijbem.org/> <https://publications.rwth-aachen.de/record/723893/files/723893.pdf>

## **Bioimpedantsi mõõtmisel põhinev südamerütmuri juhtimine : [valdkondliku arutelu ettekanne]**

**Min, Mart** Tallinna Tehnikaülikooli kaheksakümnes aastapäev 2000 / lk. 80-82 : ill

## **Biomedical electronics**

**Min, Mart; Parve, Toomas**; Salo, Rodney Wiley encyclopedia of biomedical engineering. 1 2006 / p. 500-514

## **Bioonika taassünd : [vestlus Mart Miniga]**

**Min, Mart**; Piller, Meelis Eesti Ekspress 2002 / 6. juuni, Edison, lk. 8-9 : ill

## **Broadband excitation for short-time impedance spectroscopy**

**Min, Mart**; Pliquett, Uwe; Nacke, T.; Barthel, A.; **Annus, Paul; Land, Raul** Physiological measurement 2008 / 6, p. S185-S192 : ill

## **Broadband spectroscopy of a dynamic impedance**

**Min, Mart; Land, Raul; Paavle, Toivo; Parve, Toomas; Annus, Paul** Journal of physics : conference series 2010 / 1, p. 012109

## **Broadband spectroscopy of dynamic impedances with short chirp pulses**

**Min, Mart; Land, Raul; Paavle, Toivo; Parve, Toomas; Annus, Paul**; Trebbels, Dennis Physiological measurement 2011 / p. 945-958 : ill

## **Budded baculoviruses as a receptor display system to quantify ligand binding with TIRF microscopy**

Laasfeld, Tõnis; **Ehrminger, Robin**; Tahk, Maris-Johanna; Veiksina, Santa; Kõlvart, Karl Rene; **Min, Mart**; Kopanchuk, Sergei; Rinken, Ago Nanoscale 2021 / p. 2436 - 2447 <https://doi.org/10.1039/d0nr06737g> [Journal metrics at Scopus Article at Scopus journal metrics at WOS Article at WOS](#)

## **CAP waveform estimation from the measured electrical bioimpedance values : patient's heart rate variability analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Annus, Paul**; Uuetoa, Tiina; Lamp, Jürgen Conference proceedings : 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : Milan, Italy, August 25-29 2015 2015 / p. 2788-2791 : ill <https://doi.org/10.1109/EMBC.2015.7318970>

## **Cardiac pacemakers : biological aspects, clinical applications and possible complications**

2011

## **Cardiac pacing and monitoring : new methods, modern devices**

2019 [intechopen.73811](#)

## **Cardiac rhythm management - pacing, ablation, devices**

2022 <https://doi.org/10.5772/intechopen.95171>

## **Cardiac volume related energy consumption**

**Min, Mart** Estonian Science Foundation 2010-2011 2011 / p. 17-18 : phot

## **CEBE - Centre for Integrated Electronic Systems and Biomedical Engineering**

**Fridolin, Ivo; Min, Mart; Ubar, Raimund-Johannes** The parliament magazine's research review : European research & innovation 2009 / p. 35

## **Challenges and Applications of Impedance-Based Biosensors in Water Analysis**

**Kivirand, Kairi; Min, Mart**; Rinken, Toonika Biosensors for environmental monitoring 2019 <https://doi.org/10.5772/intechopen.89334>

## **Characterizing the biofunctionalization of gold surface with total internal reflection fluorescence (TIRF) microscopy**

**Ehrminger, Robin Benjamin**; Kopantšuk, Sergei; **Kivirand, Kairi; Min, Mart** Proceedings of the Estonian Academy of Sciences 2020 / p. 27-34 : ill <https://doi.org/10.3176/proc.2020.1.02> [http://www.kirj.ee/33001/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/33001/?tpl=1061&c_tpl=1064) [Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS](#)

## **Chip design for microfluidic bioimpedance measurement**

Giannitsis, Athanasios; Cahill, Brian; **Land, Raul**; Gastrock, Gunter; Pliquett, Uwe; Nacke, T.; **Min, Mart**; Beckmann, Dieter Tagungsband : Technische Systeme für die Lebenswissenschaften : 14. Heiligenstädter Kolloquium : Heiligenstadt (Germany), 22.9-24.9.2008 2008 / p. 423-432

## **Chirp pulse excitation in the impedance spectroscopy of dynamic subjects - signal modelling in time and frequency domain**

**Min, Mart; Land, Raul; Annus, Paul; Ojarand, Jaan** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 79-82 <https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-17/chirp-pulse-excitation-impedance-spectroscopy-dynamic-subjects%E2%80%94signal-modelling-time-frequency-domain-min-land-annus-ojarand>

## **Chirp signals in impedance spectroscopy**

**Min, Mart; Märtens, Olev; Land, Raul** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 72

#### **Chirp-based piezo-impedance measurement**

**Saar, Tõnis; Reidla, Marko; Märtens, Olev; Land, Raul; Min, Mart; Herranen, Henrik** Proceedings : WISP'2013, 8th IEEE International Symposium on Intelligent Signal Processing 2013 / [4] p. : ill <https://ieeexplore.ieee.org/document/6657487>

#### **Compact multichannel device for differential impedance spectroscopy of microfluidic sensors [Online resource]**

**Ojarand, Jaan; Ehrminger, Robin Benjamin; Min, Mart; Koel, Ants** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill <http://doi.org/10.1109/BEC.2018.8600955>

#### **Compact smart home systems : design and verification of cost effective hardware solutions**

**Kuusik, Alar** 2001 [http://www.ester.ee/record=b1578112\\*test](http://www.ester.ee/record=b1578112*test)

#### **Compact smart home systems : design and verification of cost effective hardware solutions**

**Kuusik, Alar** 2001 [http://www.ester.ee/record=b1622134\\*est](http://www.ester.ee/record=b1622134*est)

#### **Comparative measurement of cardiac cycle by means of different sensors**

**Priidel, Eiko; Land, Raul; Sinivee, Veljo; Annus, Paul; Min, Mart** 2017 Electronics : proceedings of the 21st International Conference : June 19th-21st, 2017, Palanga, Lithuania 2017 / [5] p. : ill <https://doi.org/10.1109/ELECTRONICS.2017.7995221>

#### **Comparison of excitation signals and methods for a wideband bioimpedance measurement**

**Ojarand, Jaan; Rist, Marek; Min, Mart** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1291-1296 : ill <https://doi.org/10.1109/I2MTC.2016.7520555>

#### **Comparison of rectangular wave excitations in broad band impedance spectroscopy for microfluidic applications**

**Min, Mart;** Giannitsis, Athanasios; **Land, Raul;** Cahill, Brian; Pliquett, Uwe; Nacke, T.; Frense, Dieter; Gastrock, Gunter; Beckmann, Dieter World Congress on Medical Physics and Biomedical Engineering : September 7-12, 2009, Munich, Germany 2009 / p. 85-88 [https://link.springer.com/chapter/10.1007/978-3-642-03885-3\\_24](https://link.springer.com/chapter/10.1007/978-3-642-03885-3_24)

#### **Comparison of spectrally sparse excitation signals for fast bioimpedance spectroscopy : in the context of cytometry**

**Ojarand, Jaan; Land, Raul; Min, Mart** MeMeA 2012 IEEE International Symposium on Medical Measurements and Applications : proceedings : May 18-19, 2012, Budapest, Hungary 2012 / 5 p. : ill <https://ieeexplore.ieee.org/document/6226631>

#### **Comparison of the carbon nanofiber-/fiber- and silicone-based electrodes for bioimpedance measurements**

**Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul;** Must, Indrek IEEE transactions on instrumentation and measurement 2020 / p. 1455-1463 <https://doi.org/10.1109/TIM.2019.2962297> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Contactless sensing of the conductivity of aqueous droplets in segmented flow**

Cahill, Brian; **Land, Raul;** Nacke, T.; **Min, Mart;** Beckmann, Dieter Sensors and actuators B : chemical 2011 / p. 286-293 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0925400511006368>

#### **Controllable limiter of signal amplitudes for bioimpedance measurements**

**Ojarand, Jaan; Min, Mart** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 920-923 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_230](https://doi.org/10.1007/978-981-10-5122-7_230)

#### **Correlation between electrical bioimpedance and pressure waveform in radial artery and in mechanical pulsating pipe system**

**Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Märtens, Olev** 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020 <https://doi.org/10.1109/I2MTC43012.2020.9128972>

#### **Crest factor optimization of the multisine waveform for bioimpedance spectroscopy**

**Ojarand, Jaan; Min, Mart; Annus, Paul** Physiological measurement 2014 / p. 1019-1033 : ill

#### **Current mode signal processing as a challenge for improvement of lock-in measuring instruments**

**Min, Mart; Parve, Toomas** XIV IMEKO World Congress : New Measurements - Challenges and Visions, 1-6 June 1997, Tampere, Finland. Vol. 7 1997 / p. 186-191: ill

#### **Current mode signal processing in lock-in instruments for bioimpedance measurement**

**Min, Mart; Parve, Toomas** Proceedings of the 1st International Conference on Bioelectromagnetism (ICBEM'96, Tampere, Finland, June 9-13, 1996) 1996 / p. 167-168

### **Current mode signal processing in modern lock-in amplifiers**

**Min, Mart; Parve, Toomas; Kuusik, Alar** 8th International Symposium on New Measurement and Calibration Methods of Electrical Quantities and Instruments : Budapest, September 16-17, 1996 : proceedings [IMEKO TC-4] 1996 / p. 49-52 : ill

### **Current source considerations for broadband bioimpedance spectroscopy**

**Annus, Paul; Min, Mart; Rist, Marek; Ojarand, Jaan; Land, Raul** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 2 2012 / p. 63-73

### **Data acquisition from nonuniform arrays based on sine-wave crossings**

**Bilinskis, Ivars; Min, Mart;** Rybakov, A. 2007 Workshop on Digital Alias-free Signal Processing (WDASP'07) : 17 April 2007, London, UK 2007 / p. 8-13

### **Decomposition method of an electrical bio-impedance signal into cardiac and respiratory components**

**Krivošei, Andrei; Kukk, Vello; Min, Mart** Physiological measurement 2008 / 6, p. S15-S25 : ill  
<https://pubmed.ncbi.nlm.nih.gov/18544800/>

### **Decomposition of the EBI signal into components using two channel cross-compensating singular spectrum analysis**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Butsenko, Maksim** 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2018) : proceedings : Rome, Italy, June 11-13, 2018 2018 / 5 p. : ill

### **Delta-sigma data acquisition module with USB-interface**

**Annus, Paul; Kaulio, V.; Min, Mart;** Kristins, A. Proceedings of the 46th RTU Scientific Conference : Riga, Latvia, 13-14 October, 2005 2005 / p. 26-29

### **Department of Electronics**

**Min, Mart; Parve, Toomas; Laansoo, Ants; Männama, Vello; Velmre, Enn; Udal, Andres** Research activities / Tallinn Technical University 1993 / p. 79-81 [https://www.ester.ee/record=b1053754\\*est](https://www.ester.ee/record=b1053754*est)

### **Derivation of Bioimpedance Model Data Utilizing a Compact Analyzer and Two Capacitive Electrodes : A Forearm Example**

**Ojarand, Jaan; Priidel, Eiko; Min, Mart** IEEE Transactions on Biomedical Circuits and Systems 2022 / p. 891-901  
<https://doi.org/10.1109/TBCAS.2022.3206666> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Design and application of lock-in instruments**

**Min, Mart** BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 95-104: ill

### **Design concepts of instruments for vector parameter identification**

**Min, Mart; Parve, Toomas; Ronk, Ants** IEEE transactions on instrumentation and measurement 1992 / 1, p. 50-53: fig

### **Design concepts of instruments for vector parameter identification**

**Min, Mart; Parve, Toomas; Ronk, Ants** IEEE transactions on instrumentation and measurement 1992 / 1, p. 50-53

### **Design concepts of instruments for vector parameter identification**

**Min, Mart; Parve, Toomas; Ronk, Ants** Enhancing productivity with instrumentation and measurement technologies : record of the IEEE Instrumentation and Measurement Technology Conference : IMTC '91, Atlanta (USA), May 14-16, 1991 1991 / p. 347-352: fig

### **Design concepts of lock-in signal converters for measurement of dynamic electrical bioimpedance**

**Parve, Toomas;** Holmström, Nils; **Land, Raul; Min, Mart;** Noren, Kjell Proceedings of the 2nd European Medical & Biological Engineering Conference : EMBEC'02, December 4-8, 2002, Vienna, Austria. 2 2002 / p. 1456-1457

### **Design of bioimpedance measurement system using direct carrier compensation**

**Annus, Paul;** Lamp, Jürgen; **Min, Mart; Paavle, Toivo** Proceedings of the European Conference on Circuit Theory and Design : ECCTD'05 : Cork, Ireland, Aug. 29 - Sept. 02, 2005. Vol. III 2005 / p. 23-26 <https://ieeexplore.ieee.org/document/1523051>

### **Detection of changes in tissue state with the aid of electromagnetic interaction = Koe seisundi muutuste detekteerimine elektromagnetilise vastastikmõju abil**

**Priidel, Eiko** 2022 <https://doi.org/10.23658/taltech.51/2022> <https://digikogu.taltech.ee/et/Item/c0a10f6b-6b53-45d9-a031-7e5c409946d2>  
[https://www.ester.ee/record=b5511742\\*est](https://www.ester.ee/record=b5511742*est)

### **Developing e-learning functionalities on electrical bioimpedance for the biomedical electronics course**

**Gordon, Rauno; Min, Mart; Parve, Toomas** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 327-330 : ill

### **Development and analysis of carbon-based dry-contact electrodes for bioimpedance measurements = Süsinikmaterjalid**

## **põhinevate kuivkontakt-elektroodide arendus ja analüüs bioimpedantsi mõõtmiseks**

**Kõiv, Hip** 2023 <https://doi.org/10.23658/taltech.1/2023> <https://digikogu.taltech.ee/et/Item/f2775738-652e-4b4e-ba34-7a61fab78867>  
[https://www.ester.ee/record=b5528441\\*est](https://www.ester.ee/record=b5528441*est)

## **Development of a bio-impedance signal simulator on the basis of the regression based model of the cardiac and respiratory impedance signals**

**Muhammad, Yar; Le Moulec, Yannick; Annus, Paul; Min, Mart** 16th Nordic-Baltic Conference on Biomedical Engineering : 16. NBC & 10. MTD 2014 Joint Conferences, October 14-16, 2014, Gothenburg, Sweden 2015 / p. 92-95 : ill

## **Development of bioimpedance sensing device for wearable monitoring of the aortic blood pressure curve = Entwicklung eines Bioimpedanz-Messgerätes für die mobile Erfassung des aortalen Blutdruck**

**Kõiv, Hip; Rist, Marek; Min, Mart** Technisches Messen 2018 / p. 366–377 : ill <https://doi.org/10.1515/teme-2017-0113> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Development of Electrical Impedance Spectroscopy and Total Internal Reflection Microscopy Based Biosensing Assay Systems = Elektrilise impedantsi spektroskoopial ja täieliku sisepeegelduse fluorestsentsmikroskoopial põhinevad biotundlikud süsteemid**

**Ehrminger, Robin Benjamin** 2021 <https://digikogu.taltech.ee/et/Item/5607e7d2-df0b-45b4-98ff-9689389a3b2d>  
[https://www.ester.ee/record=b5462773\\*est](https://www.ester.ee/record=b5462773*est) <https://doi.org/10.23658/taltech.48/2021>

## **Development of the biomedical electronics course for e-learning**

**Parve, Toomas; Gordon, Rauno; Min, Mart** 14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics : NBC2008 : 16-20 June 2008, Riga, Latvia 2008 / p. 425-428

## **Deviation extension in PLL frequency demodulators**

**Min, Mart; Männama, Vello** ECCTD'97 : proceedings of the European Conference on Circuit Theory and Design, Aug. 31-Sept. 3 1997, Budapest, Hungary. Vol. 1 1997 / p. 133-138

## **Deviation extension problems and nonlinear effects in the phase locked loop frequency demodulators**

**Min, Mart; Männama, Vello; Paavle, Toivo** Proceedings of the Estonian Academy of Sciences. Engineering 2000 / 2, p. 120-134 : ill [https://artiklid.elnet.ee/record=b1004042\\*est](https://artiklid.elnet.ee/record=b1004042*est)

## **Device and method for monitoring bioimpedance of tissue transplants**

**Annus, Paul; Haldre, Eero; Kuusik, Alar; Land, Raul; Min, Mart; Paavle, Toivo; Parve, Toomas** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuuseum 2007 / lk. 140-143 : ill

## **Difference sampling in bio-impedance measurement**

**Annus, Paul; Rist, Marek; Reidla, Marko; Min, Mart** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 67

## **Digital post-processing of the bio-impedance signal**

**Märtens, Olev; Märtin, Hannes; Min, Mart; Parve, Toomas; Ronk, Ants** Proceedings of X International Conference on Electrical Bio-Impedance : ICEBI'98 : 5-9 April 1998, Barcelona 1998 / p. 445-448

## **Digital simulation of analog phase locked loops**

**Min, Mart; Paavle, Toivo; Kiive, Rein** Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section A. Section M / Tallinn Technical University 1992 / p. 135-150: ill

## **Discrete-level broadband excitation signals : binary/ternary chirps**

**Paavle, Toivo; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2012 / p. 23-26 : ill

## **A DSP-based EBI, ECG and PPG measurement platform**

**Abdullayev, Anar; Rist, Marek; Märtens, Olev; Metshein, Margus; Larras, Benoit; Frappe, Antoine; Gautier, Antoine; Min, Mart; John, Deepu; Cardiff, Barry; Krivosei, Andrei; Annus, Paul** IEEE transactions on instrumentation and measurement 2023 / art. 2007808, 8 p <https://doi.org/10.1109/TIM.2023.3320771> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **A DSP-based impedance measurement device**

**Abdullayev, Anar; Märtens, Olev; Rist, Marek; Metshein, Margus; Min, Mart; Annus, Paul** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 5 l. <https://doi.org/10.1109/BEC56180.2022.9935588>

## **Dynamic electrical impedance measurement methods**

**Giannoukos, Georgios; Min, Mart** Engineering Technology, Engineering Education and Engineering Management : 2014 International Conference on Engineering Technology, Engineering Education and Engineering Management (ETEEEM 2014), Guangzhou, China, 15-16 November 2014 2015 / p. 379-383 : ill <http://dx.doi.org/10.1201/b18566-91>

### **Dynamic reference for evaluation of bioimpedance spectroscopy devices**

**Rist, Marek; Min, Mart** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 107-110 : ill  
[http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

### **Dynamic volume measurement of right ventricle using impedance spectroscopy and multi electrode intraventricular catheter**

**Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 26-27 : ill

### **Eddy current corrosion measurement of steel**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek;** Ferenets, Marju; Käsper, Andres International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 40-41 : ill

### **Eddy current corrosion measurement of steel**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek;** Ferenets, Marju; Käsper, Andres Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 125-134 : ill <https://doi.org/10.1515/9783110558920-012>

### **Eddy current validation of Euro-coins**

**Gordon, Rauno; Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Gavrijaševa, Alina; Pokatilov, Andrei;** Kolyshkin, Andrei Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 3 2012 / p. 47-63 : ill

### **Editorial**

**Min, Mart** Estonian journal of engineering 2010 / 1, p. 3-4 : ill

### **Editorial**

**Min, Mart** Estonian journal of engineering 2011 / 3, p. 183-184

### **Editorial**

**Min, Mart** Proceedings of the Estonian Academy of Sciences. Engineering 2006 / 3-2, p. 243

### **Education environment for electronics and microsystems**

**Ajaots, Maido; Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes** First European Workshop on Microelectronics Education, Villard de Lans, France, February 5-6, 1996 : proceedings 1996 / p. 39

### **Education environment for electronics and microsystems**

**Ajaots, Maido; Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes** Microelectronics education : proceedings of the European Workshop, Grenoble, France, 5-6 Feb 1996 1996 / p. 145-148: ill

### **Eesti kingitus maailma füüsikale : 9. aprillil möödus 237 aastat Thomas Johann Seebecki sünnist Tallinnas : [intervjuu prof. Enn Velmre ja prof. Mart Min'iga]**

**Velmre, Enn; Min, Mart; Ummelas, Mart** Mente et Manu 2007 / 18. apr., lk. 3 : ill [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Eesti Nokia sünnib Mustamäel : [vestlus Mart Miniga]**

**Min, Mart;** Rätsep, Artur Mustamäe 1999 / nr. 7, juuni, lk. 3

### **Eesti teaduse tippkeskus infotehnoloogia teaduskonda**

**Ubar, Raimund-Johannes; Fridolin, Ivo; Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2008 2009 / lk. 19-26

### **Eesti teadustegevus sai esimese tugeva rahasüsti : [M.Mini ja A.Keevalliku kommentaaridega]**

Uusen, Kaire; **Min, Mart; Keevallik, Andres** Postimees 2004 / 13. okt., lk. 9 : fot <https://www.postimees.ee/1439077/eesti-teadustegevus-sai-esimese-tugeva-rahասusti>

### **Eestlaste loodud südamestimulaator meelitas rikkad jänkid meie meditsiini juurde : [TTÜ elektroonikainstituudi professori Mart Min'i kommentaariga]**

Nõu, Kerli; **Min, Mart** Eesti Päevaleht 2005 / 16. nov., Ärileht, lk. 6-7

### **Efficient excitation signals for the fast impedance spectroscopy**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 144-149 : ill

### **Electrical bioimpedance analysis for evaluating the effect of pelotherapy on the human skin : methodology and experiments**

**Metshein, Margus;** Tuulik, Varje-Riin; Tuulik, Viiu; Kumm, Monika; **Min, Mart; Annus, Paul** Sensors 2023 / art. 4251  
<https://doi.org/10.3390/s23094251> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Electrical bio-impedance based non-invasive method for the central aortic blood pressure waveform estimation**  
**Krivošei, Andrei; Min, Mart; Uuetoa, Hasso; Lamp, Jürgen; Annus, Paul** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 181-184 : ill

**Electrical bio-impedance measurement in a rate-adaptive pacemaker**  
**Eek, Andres; Min, Mart; Parve, Toomas** Matavimai = Measurements 1996 / 1/2, p. 21-24: ill

**Electrical impedance and cardiac monitoring : technology, potential and applications**  
**Min, Mart;** Ollmar, S.; Gersing, Eberhard International journal of bioelectromagnetism 2003 / 1, Advances in Electrocardiology : proceedings of the XXX International Congress of Electrocardiology : ICE2003 : June 11-14, 2003, Helsinki, Finland, p. 53-56

**Electrochemical impedance spectroscopy**  
El-Azazy, Marwa; **Min, Mart; Annus, Paul** Intechopen 2020 <https://www.intechopen.com/books/10054>  
<https://doi.org/10.5772/intechopen.92333>

**Electrode optimization for bioimpedance based central aortic blood pressure estimation**  
**Metshein, Margus; Kõiv, Hip; Annus, Paul; Min, Mart** World Congress on Medical Physics and Biomedical Engineering 2018 : June 3–8, 2018, Prague, Czech Republic (Vol. 2) 2018 / p. 497-501 [https://doi.org/10.1007/978-981-10-9038-7\\_92](https://doi.org/10.1007/978-981-10-9038-7_92) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Electrode placement strategies for the measurement of radial artery bioimpedance : simulations and experiments**  
**Pesti, Ksenija; Metshein, Margus; Annus, Paul; Kõiv, Hip; Min, Mart** IEEE transactions on instrumentation and measurement 2021 / 10 p. : ill <https://doi.org/10.1109/TIM.2020.3011784> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electronics at Tallinn Technical University**  
**Min, Mart** Baltic electronics 1995 / 1, p. 6-7

**Electronics education at Tallinn Technical University**  
**Min, Mart** Proceedings [of the] 15th NORCHIP Conference, Tallinn, 10-11 November 1997 1997 / p. 142-149: ill

**Electrowetting as a tool for droplet actuation : electrode design and simulation**  
Giannitsis, Athanasios; Cahill, Brian; **Land, Raul;** Gastrock, G.; Pliquett, Uwe; Nacke, T.; **Min, Mart;** Beckmann, Dieter Tagungsband : Technische Systeme für die Lebenswissenschaften : 14. Heiligenstädter Kolloquium : Heiligenstadt (Germany), 22.9-24.9.2008 2008 / p. 433-442

**Elektrilisel bioimpedantsil põhinev sensor jälgib kopsude ja südame tööd**  
Mente et Manu 2021 / lk. 30-31 : portr [Mente et Manu 2/2021](#)

**Elektroonika kui Eesti innovatsioonisüsteemi infrastruktuur**  
**Min, Mart; Rang, Toomas; Ubar, Raimund-Johannes** Eesti teadlaste kongress, 11.-15. augustini 1996. a. Tallinnas : ettekannete kokkuvõtted 1996 / lk. 265 [https://www.ester.ee/record=b1052731\\*est](https://www.ester.ee/record=b1052731*est)

**Elektroonikainstituudi direktor professor Mart Min ei suuda uhkust ja rõõmu varjata : [vestlus]**  
**Min, Mart; Reinde, Urmi** Tehnikaülikool 1996 / 25. okt., lk. 1-2: ill [https://www.ester.ee/record=b5309277\\*est](https://www.ester.ee/record=b5309277*est)

**Elektroonikainstituut**  
**Min, Mart** Teadustegevus / TTÜ 1993 / lk. 83-86

**Elektroonikateadlane dr. Mart Min räägib oma tööst ja Eesti teadusest : [intervjuu]**  
**Min, Mart;** Tensuda, Kaire Eesti Elu : [Kanada ajaleht] 2008 / 30. mai, lk. 12 : portr

**Elektroonikatööstus ja -haridus Eestis : olukord ja väljavaated : [ettekannete konverentsi "Tallinna Tehnikaülikooli teadus" plenaaristungil]**  
**Min, Mart** Tallinna Tehnikaülikooli kaheksakümnes aastapäev 2000 / lk. 45-52

**Elektroonikatööstus ja -haridus Eestis : võimalused ja väljavaated : [ettekannete konverentsil "Tallinna Tehnikaülikooli teadus", 18. sept. 1998]**  
**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 1998 1999 / lk. 48-52

**Elektroonikud ettevõtluses : teadus, arendus, äri**  
**Min, Mart** Elektroonika 2000 : VII rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid 2000 / lk. 15-18

**Elektroonikud ettevõtluses : teadus, arendus, äri : ettekanne VII rahvusvahelise telekommunikatsioonipäeva konverentsil**

**"Elektronika 2000" avaistungil 19. mail 2000 TTÜ aulas**

**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2000 2001 / lk. 211-213

**Elektronikud teadusfoorumitel - lööme kaasa ja teeme ise**

**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 351-353

**Elektronikutelt inimesele ja ühiskonnale : eilsed mõtted täna teoks, tänased homme**

**Min, Mart** Teadusmõte Eestis : tehnikateadused 2002 / lk. 83-89 : ill

**Eluskudede elektriline bioimpedants : kongressist kongressini ja laiemaltki**

**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2003 2004 / lk. 297-301 : ill. (Kongressimuljeid)

**Energy efficient pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 19-20 : ill

**An energy efficient wearable tissue monitor**

**Annus, A.; Kuusik, Alar; Land, Raul; Haldre, Eero; Min, Mart; Parve, Toomas; Poola, Gustav** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 240-243 [https://link.springer.com/chapter/10.1007/978-3-540-73841-1\\_64](https://link.springer.com/chapter/10.1007/978-3-540-73841-1_64)

**Energy-efficient pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 153-160 : ill <https://doi.org/10.1515/9783110558920-015>

**Enhanced optimization of the wideband excitation signal for a bioimpedance measurement**

**Ojarand, Jaan; Rist, Marek; Min, Mart** 2015 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2015) : May 11-14, 2015, Pisa, Italy : proceedings 2015 / p. 1801-1806 : ill <http://dx.doi.org/10.1109/I2MTC.2015.7151554>

**Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Lamp, Jürgen; Annus, Paul; Uuetoa, Tiina** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

**Estimating the transfer function between the CAP and radial EBI cardiac periods : use of PCA for dominating spectral features analysis**

**Krivošei, Andrei; Uuetoa, Hasso; Min, Mart; Lamp, Jürgen; Annus, Paul; Uuetoa, Tiina** International journal of bioelectromagnetism 2015 / p. 31-35 : ill

**Euromüntide ehtsusest**

**Min, Mart** Horisont 2010 / 4, lk. 6 [https://artiklid.elnet.ee/record=b2153585\\*est](https://artiklid.elnet.ee/record=b2153585*est)

**Excitation current source for bioimpedance measurement applications : analysis and design**

**Annus, Paul; Krivošei, Andrei; Min, Mart; Parve, Toomas** I2MTC 2008 : IEEE International Instrumentation and Measurement Technology Conference : May 12-15, 2008, Victoria, Canada 2008 / p. 848-853 : ill

**Faasisünkroniseerimissüsteemi isehäälestumise tagamine : magistritöö**

**Ronk, Ants** 1992 [https://www.ester.ee/record=b2676473\\*est](https://www.ester.ee/record=b2676473*est)

**Fabrication methods for microfluidic lab-on-chips**

**Giannitsis, Athanasios; Min, Mart** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 69-72

**Fast impedance spectroscopy of piezosensors for structural health monitoring**

**Märtens, Olev; Saar, Tõnis; Min, Mart; Land, Raul; Reidla, Marko** Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 7, p. 31-34 : ill

**Fast precise eddy current measurement of metals**

**Märtens, Olev; Land, Raul; Min, Mart; Rist, Marek; Annus, Paul; Pokatilov, Andrei** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 5 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409781>

**Feasibility of utilizing air gapped toroidal magnetic cores for detecting pulse wave in radial artery**

**Metshein, Margus; Pesti, Ksenija; Min, Mart; Annus, Paul; Märtens, Olev** 2020 17th Biennial Baltic electronics conference, Tallinn, Estonia, October 6-8, 2020 : proceedings 2020 / 5 p. : ill <https://doi.org/10.1109/BEC49624.2020.9277197>

### **Flexible inductive coils for wearable cardiorespiratory activity monitoring [Online resource]**

**Metshein, Margus; Annus, Paul; Min, Mart** BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600990>

### **FPGA-based 16-bit 20 MHz device for the inductive measurement of electrical bio-impedance**

**Priidel, Eiko; Pesti, Ksenija; Min, Mart; Ojarand, Jaan; Märtens, Olev** 2021 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2021), May 17-20, 2021 : proceedings 2021 / 5 p. : ill <https://doi.org/10.1109/I2MTC50364.2021.9460073>

### **Frequency-optimized rectangular pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

### **Frequency-optimized rectangular pulses for deep brain stimulation**

**Gordon, Rauno; Min, Mart; Land, Raul** International journal of bioelectromagnetism 2015 / p. 13-19 : ill

### **From basic foundations to future developments : introductory chapter**

**Min, Mart** Cardiac Pacing and Monitoring : New Methods, Modern Devices 2019 / p. 1-7 <http://dx.doi.org/10.5772/intechopen.85674>

### **Front-end electronics for impedimetric microfluidic devices**

**Ojarand, Jaan; Giannitsis, Athanasios; Min, Mart; Land, Raul** Bioelectronics, Biomedical, and Bioinspired Systems V; and Nanotechnology V : 18-20 April 2011, Prague, Czech Republic 2011 / p. 80680R-1 - 80680R-15 : ill

### **Functional self-test of high-performance pipe-lined signal processing architectures**

**Gorev, Maksim; Ubar, Raimund-Johannes; Ellervee, Peeter; Devadze, Sergei; Raik, Jaan; Min, Mart** Microprocessors and microsystems 2015 / p. 909-918 : ill <http://dx.doi.org/10.1016/j.micpro.2014.11.002>

### **Fundamentals, recent advances, and future challenges in bioimpedance devices for healthcare applications**

Naranjo-Hernandez, David; Reina-Tosina, Javier; **Min, Mart** Journal of sensors 2019 / art. 9210258, 42 p. : ill  
<https://doi.org/10.1155/2019/9210258> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Guest editorial**

**Min, Mart** Proceedings of the Estonian Academy of Sciences. Engineering 2001 / 4, p. 251-252

### **Guest editorial**

**Min, Mart** Proceedings of the Estonian Academy of Sciences. Engineering 2004 / 3, p. 155-156

### **Hankel matrix based algorithm for cardiac pulse wave base and peak lines Correction**

**Krivošei, Andrei; Min, Mart; Annus, Paul; Märtens, Olev; Metshein, Margus;** Lotamõis, Kristina; Rist, Marek IEEE International Workshop on Medical Measurement and Applications (MEMEA) 2022 / 6 p <https://doi.org/10.1109/MeMeA54994.2022.9856564>

### **High speed data preprocessing for bioimpedance measurements : architectural exploration**

**Ellervee, Peeter; Annus, Paul; Min, Mart** The 27th NORCHIP Conference : Trondheim, Norway, November 2009 2009 / [4] p  
<https://ieeexplore.ieee.org/document/5397838>

### **High-performance analogue measurement using internal enhanced PWM and ADC of a DSP-chip**

**Märtens, Olev; Min, Mart; Trampärk, Harri; Liimets, Aivar** WISP2007 proceedings : 5th IEEE International Symposium on Intelligent Signal Processing : Alcalá de Henares, Madrid (Spain), October 3-5, 2007 2007 / [5] p  
<https://ieeexplore.ieee.org/document/4447593>

### **How did the idea for publishing the journal originate?**

**Min, Mart;** Bekeris, Elmars; Rupkus, Stasys Baltic electronics 1995 / 1, p. 1 [https://artiklid.elnet.ee/record=b2856561\\*est](https://artiklid.elnet.ee/record=b2856561*est)

### **How many frequencies to use in electrical bioimpedance measurement?**

**Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 24-25 : ill

### **How many frequencies to use in electrical bioimpedance measurements**

**Ojarand, Jaan; Land, Raul; Min, Mart; Rist, Marek** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 161-168 : ill <http://doi.org/10.1515/9783110558920-016>

### **Impedance controlled pacemaker (Herzschrittmacher)**

**Min, Mart** Presentation at the VDI/VDE - Gesellschaft Mess- und Automatisierungstechnik Workshop "Impedanzspektrometrie - Prinzipien und Anwendungen" : Universität Kassel, BRD, 2003 2003

### **Impedance detection**

**Min, Mart; Parve, Toomas;** Pliquett, Uwe Encyclopedia of microfluidics and nanofluidics. 2nd ed 2015 / p. 1338-1361 : ill

### **Impedance measurement solution based on the high time resolution DSP**

**Märtens, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek** 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2020), May 25-29, 2020, Dubrovnik, Croatia : proceedings 2020  
<https://doi.org/10.1109/I2MTC43012.2020.9128843>

### **Impedants : elektroonikute ideelaegas ja varakamber aastakümneteks**

**Min, Mart** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 130-144 : ill., fot  
[https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

### **Improved extraction of information in bioimpedance measurements**

**Min, Mart; Paavle, Toivo** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 78 : ill

### **Improved impedance analyzer with binary excitation signals**

**Märtens, Olev; Land, Raul; Min, Mart; Annus, Paul; Rist, Marek; Reidla, Marko** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 25-29 : ill

### **Improvement of lock-in electrical bio-impedance analyzer for implantable medical devices**

**Min, Mart; Parve, Toomas** IEEE transactions on instrumentation and measurement 2007 / 3, p. 968-974

### **Improvement of lock-in signal converters for application in electrical bio-impedance measurement**

**Parve, Toomas** 2000 [http://www.ester.ee/record=b1707856\\*est](http://www.ester.ee/record=b1707856*est)

### **Improvement of switching lock-in signal conversion in bioimpedance analysers**

**Parve, Toomas; Land, Raul; Min, Mart; Poola, Gustav** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 179-182 : ill

### **Improvement of the vector analyser based on two-phase switching mode synchronous detection**

**Min, Mart; Parve, Toomas** Measurement 1996 / 2, p. 103-111: ill

### **Improvements in design of spectra of multisine and binary excitation signals for multi-frequency bioimpedance measurement**

**Land, Raul; Cahill, Brian; Parve, Toomas; Annus, Paul; Min, Mart** 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society : EMBS : Boston, Massachusetts USA, August 30 - September 3, 2011 2011 / p. 4038-4041 : ill  
<https://ieeexplore.ieee.org/document/6091003>

### **Improving coplanar electrodes for moving water droplets**

Giannitsis, Athanasios; Cahill, Brian; Pliquett, Uwe; Gastrock, Gunter; **Land, Raul;** Nacke, T.; **Min, Mart;** Beckmann, Dieter  
Proceedings of the 1st European Conference on Microfluidics - Microfluidics 2008 : Bologna, Italy December 10-12, 2008 2008 / [10] p

### **Infotehnoloogia teaduskond**

**Gordon, Boris; Velme, Enn; Einer, Lauri; Tamm, Uljas; Meister, Ants; Korsen, Viljo; Märtens, Olev; Parve, Toomas; Ubar, Raimund-Johannes; Min, Mart** Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 34-47 : ill  
[https://www.ester.ee/record=b2412718\\*est](https://www.ester.ee/record=b2412718*est)

### **Instrumentation phase locked loop**

**Min, Mart** Periodica polytechnica. Electrical engineering 1990 / 3, p. 221-232: fig

### **Integration of biosensors and associated electronics on lab-on-chip devices**

**Giannitsis, Athanasios; Parve, Toomas; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 61-66 : ill

### **Intracardiac bio-impedance measurement for cardiac rhythm control**

Holmström, Nils; Järverud, Karin; **Min, Mart;** Noren, Kjell; **Parve, Toomas** Medical & biological engineering & computing 1999 / Suppl. 1, Proceedings of the 11th Nordic-Baltic Conference on Biomedical Engineering : NBCBME'99 : June 6-10, 1999, Tallinn, Estonia, p. 163-164: ill

### **Intracardiac electrical bioimpedance as a basis for controlling of pacing rate limits**

**Kink, Andres; Salo, Rodney; Min, Mart; Parve, Toomas; Rätsep, Indrek** Proceedings of the 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society : New York, 30.08-3.09.2006 2006 / p. 6308-6311

### **Investigation of cost-effective carbon nanofiber/carbon fiber and silicone polymer composite material for wearable bioimpedance device**

**Kõiv, Hip; Pesti, Ksenija; Min, Mart; Land, Raul** 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p <https://doi.org/10.1109/SAS.2019.8706026>

**Jaapani professor esines Tallinna Tehnikaülikoolis : [Tohoku Ülikooli biomeditsiinielektronika labori juhataja Nozomu Hoshimiya]**

**Min, Mart; Velmre, Enn** *Mente et Manu* 2001 / lk. 3 : portr [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Jant kodakondsuse ümber jätkub**

**Min, Mart** *Õhtuleht* 1992 / 28. sept

**Jutuajamine professor Mart Miniga : [intervjuu]**

**Min, Mart** *A & A* 2011 / 2, lk. 5-9

**3+2-kõrgharidus : [arvamust avaldavad] Rein Raud, Mart Min [jt.]**

**Raud, Rein; Min, Mart** *Õpetajate Leht* 2010 / lk. 7 [https://artiklid.elnet.ee/record=b2153300\\*est](https://artiklid.elnet.ee/record=b2153300*est)

**Kõrgsageduslik lülitrežiimne sünkroondetektor : magistritöö**

**Kuusik, Alar** 1995 [https://www.ester.ee/record=b2680357\\*est](https://www.ester.ee/record=b2680357*est)

**Kümme aastat uuringuid südame heaks : [intervjuu prof. Mart Min'iga]**

**Min, Mart; Ummelas, Mart** *Mente et Manu* 2006 / 22. nov., lk. 2 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Lihne leiutis sai Euroopa patendi : [TTÜ professori ja tema kolleegide diagnostikaseade]**

**Min, Mart** *Postimees* 2009 / 30. okt., lk. 4 <https://leht.postimees.ee/181551/lihtne-leiutis-sai-euroopa-patendi>

**Limitation of signal amplitudes in bioimpedance spectroscopy**

**Ojarand, Jaan; Rist, Marek; Min, Mart** *Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016* 2016 / p. 68

**Lock-in integration for detection of tiny bioimpedance variations [Online resource]**

**Priidel, Eiko; Annus, Paul; Metshein, Margus; Land, Raul; Märtnens, Olev; Min, Mart** *BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018* 2018 / 4 p. : ill <https://doi.org/10.1109/BEC.2018.8600965>

**Lock-in measurement of bio-impedance variations**

**Min, Mart; Märtnens, Olev; Parve, Toomas** *Measurement* 2000 / 1, p. 21-28

**Lock-in measurement of the hand-hand bio-impedance**

**Min, Mart; Haldre, H.; Härm, Härm; Märtnens, Olev; Märtnin, Hannes; Parve, Toomas; Ronk, Ants** *8th International IMEKO Conference on Measurement in Clinical Medicine Biomedical Measurement and Instrumentation & 12th International Symposium on Biomedical Engineering, Dubrovnik, Croatia, September 16-19, 1998 : proceedings 1998* / p. 2.49-2.52

**Low-energy chirps for bioimpedance measurement**

**Paavle, Toivo; Min, Mart; Trebbels, Dennis** *34th International Conference on Telecommunications and Signal Processing (TSP) : Budapest, Hungary, August 18-20, 2011 : [proceedings] 2011* / p. 398-402 : ill

**Magnetic induction sensor for the respiration monitoring**

**Ojarand, Jaan; Pille, Siim; Min, Mart; Land, Raul; Oleitšuk, J.** *The 10th International Conference on Bioelectromagnetism : proceedings 2015* / [4] p. : ill

**Mart Min: Innovatsiooniks on vaja reaalseid samme**

**Min, Mart;** *Talviste, Kaire HEI = Hea Eesti Idee* 2012 / lk. 16-17 : portr

**Matavimai**

**Žilinskas, R.P.; Min, Mart** 1995 [https://www.ester.ee/record=b1433508\\*est](https://www.ester.ee/record=b1433508*est)

**Mathematical and physical modelling of dynamic electrical impedance = Dünaamilise impedantsi matemaatiline ja füüsikaline modelleerimine**

**Giannoukos, Georgios** 2016 <https://digi.lib.ttu.ee/ii/?5654> [https://www.ester.ee/record=b4579206\\*est](https://www.ester.ee/record=b4579206*est)

**Mathematical and physical modelling of the dynamic electrical bioimpedance**

**Giannoukos, Georgios; Min, Mart** *International journal of circuits, systems and signal processing* 2014 / p. 600-606 : ill

**Mathematical and physical modelling of the dynamic electrical impedance of a neuron**

**Giannoukos, Georgios; Min, Mart** *International journal of circuits, systems and signal processing* 2012 / p. 359-366 : ill [https://www.researchgate.net/publication/264128963\\_Mathematical\\_and\\_Physical\\_Modelling\\_of\\_the\\_Dynamic\\_Electrical\\_Impedance\\_of\\_a\\_Neuro](https://www.researchgate.net/publication/264128963_Mathematical_and_Physical_Modelling_of_the_Dynamic_Electrical_Impedance_of_a_Neuro)

### **Mathematical and physical modelling of the dynamic electrical impedance of a tooth**

**Giannoukos, Georgios; Min, Mart** Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850002-1 - 850002-4 <http://dx.doi.org/10.1063/1.4913057>

### **Mathematical and physical modelling of the dynamic fluidic impedance of arteries using electrical impedance equivalents**

**Giannoukos, Georgios; Min, Mart** Mathematical methods in the applied sciences 2013 / p. 1-7 : ill

### **Mathematical modelling of the dynamic electrical impedance of a parallel RC circuit using a Wien bridge oscillator**

**Giannoukos, Georgios; Min, Mart** Journal of computational methods in sciences and engineering 2015 / p. 287-293  
<http://dx.doi.org/10.3233/JCM-150543>

### **Measurement of intracardiac bioimpedance in rate adaptive pacemakers**

**Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas; Poola, Gustav** Proceedings of the 31. International Congress on Electrocardiology : June 27-July 1, 2004, Kyoto, Japan 2004 / [4] p

### **Measurement of intracardiac bioimpedance in rate adaptive pacemakers**

**Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas; Poola, Gustav** Proceedings of the 31st International Congress of Electrocardiology "Advances in Electrocardiology 2004" : 27 June - 1 July, 2004, Singapore 2005 / p. 738-742

### **Measurement of the electric conductivity of highly conductive metals with 4-electrode impedance method**

**Gordon, Rauno; Rist, Marek; Märtnens, Olev; Min, Mart** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 35-40 <https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-8/measurement-electric-conductivity-highly-conductive-metals-4-electrode-impedance-method-gordon-rist-m%C3%A4rtens-min>

### **Mess Tehnoloogia 2000 - teaduse, tehnika ja rahamaailma kohtumine**

**Reinde, Urmi; Ruubel, Rein; Min, Mart** Tehnikaülikool 2000 / 5. juuni, lk. 1-3 : fot., portr [https://artiklid.elnet.ee/record=b1660996\\*est](https://artiklid.elnet.ee/record=b1660996*est)

### **Method for synchronous sampling in multifrequency bioimpedance measurements**

**Min, Mart; Parve, Toomas; Annus, Paul; Paavle, Toivo** Proceedings of the 23rd IEEE Instrumentation and Measurement Technology Conference (IMTC/06) : Sorrento, Italy, 24-27 April, 2006 2006 / p. 1699-1703

### **Method for wideband signal digitizing and their real-time reconstruction in enlarged dynamic range**

**Biblinkis, I.; Sudars, K.; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 110-113 : ill

### **A method of intra-ventricular bioimpedance spectroscopy to estimate the dynamic volume of right ventricle**

**Kink, Andres; Rist, Marek; Land, Raul; Kõiv, Hip; Min, Mart** Impedance spectroscopy : advanced applications : battery research, bioimpedance, system design 2018 / p. 169-176 : ill <https://doi.org/10.1515/9783110558920-017>

### **Method of synchronous undersampling for complex bioimpedance measurement system**

**Min, Mart; Paavle, Toivo** Proceedings of European Conference on Circuit Theory and Design : ECCTD'03 : September 1-4, 2003, Cracow, Poland 2003 / p. 302-305

### **Methods for detection of bioimpedance variations in resource constrained environments**

**Priidel, Eiko; Annus, Paul; Krivošei, Andrei; Rist, Marek; Land, Raul; Min, Mart; Märtnens, Olev** Sensors 2020 / art. 1363, 16 p. : ill <https://doi.org/10.3390/s20051363> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Methods of multi-frequency bioimpedance measurement in implantable and wearable devices**

**Min, Mart; Parve, Toomas; Poola, Gustav** Proceedings of the 3rd European Medical & Biological Engineering Conference EMBE'05 : November 20-25, 2005, Prague, Czech Republic 2005 / [4] p

### **Minimization of transient time in the third order phase-locked loop**

**Min, Mart** Circuit theory and design eighty-seven 87 : proceedings of the European Conference on Circuit Theory and Design - ECCTD 87, Paris, France, 1 - 4 Sept. 1987 1987 / p. 835-840

### **Model based method for adaptive decomposition of the thoracic bio-impedance variations into cardiac and respiratory components = Mudelipõhine meetod torso bioimpedantsi muutuste adaptiivseks dekompositsiooniks südametegevuse ja hingamise komponentideks**

**Krivošei, Andrei** 2009 [https://www.ester.ee/record=b2508758\\*est](https://www.ester.ee/record=b2508758*est)

### **Modeling of the PLL-based bioimpedance measurement system**

**Paavle, Toivo; Min, Mart** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 183-186 : ill

### **Modelling and simulation of arterial blood pulsation via bioimpedance = Arteriaalse verepulsatsiooni modelleerimine ja simuleerimine bioimpedantsi kaudu**

**Pesti, Ksenija** 2021 [https://www.ester.ee/record=b5436843\\*est](https://www.ester.ee/record=b5436843*est) <https://digikogu.taltech.ee/et/item/7fe2bc87-aa1a-4214-9971-fc938313bd28>  
<https://doi.org/10.23658/taltech.34/2021>

**Modelling of cardiac dynamics and intracardiac bioimpedance = Südame dünaamika ja südamesisese bioimpedantsi modelleerimine**

**Gordon, Rauno** 2007 <https://digi.lib.ttu.ee/i/?147>

**Modelling of dynamic electrical bioimpedance and measurements safety**

**Giannoukos, Georgios; Min, Mart** AASRI procedia 2014 / p. 12-18 : ill

**Modelling, design and test of a bioimpedance measurement system with carrier compensation**

**Annus, Paul; Lamp, Jürgen; Min, Mart; Paavle, Toivo** Proceedings of the 46th RTU Scientific Conference : Riga, Latvia, 13-14 October, 2005 2005 / p. 22-25

**Modern methods and devices for cardiac rhythm management : Introductory chapter**

**Min, Mart;** Cismaru, Gabriel Cardiac Rhythm Management - Pacing, Ablation, Devices 2022 <https://doi.org/10.5772/intechopen.104947>

**Modification of pulse wave signals in electrical bioimpedance analyzer for implantable medical devices**

**Min, Mart;** Kink, Andres; **Land, Raul; Parve, Toomas; Rätsep, Indrek** Proceedings of the 26. Annual International Conference of the IEEE EMBS : September 1-5, 2004, San Francisco, California, USA 2004 / p. 2263-2266  
<https://pubmed.ncbi.nlm.nih.gov/17272178/>

**Modular system for fast impedance spectrum analysis of biomedical objects**

**Rist, Marek; Reidla, Marko; Märten, Olev; Land, Raul; Min, Mart; Parve, Toomas; Annus, Paul** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 151 : ill

**Modular system for spectral analysis of time-variant impedances**

**Rist, Marek; Reidla, Marko; Land, Raul; Parve, Toomas; Märten, Olev; Annus, Paul; Ojarand, Jaan; Min, Mart** 6th European Conference of the International Federation for Medical and Biological Engineering : MBEC 2014, 7-11 September 2014, Dubrovnik, Croatia 2015 / p. 858-861 : ill

**Multichannel bioimpedance spectroscopy : instrumentation methods and design principles = Paljukanaliline bioimpedantspektroskoopia : mõõtemetodid ja disaini printsiibid**

**Annus, Paul** 2009 [http://www.ester.ee/record=b2557759\\*est](http://www.ester.ee/record=b2557759*est)

**Multichannel electrical impedance spectroscopy analyzer with microfluidic sensors**

**Ojarand, Jaan; Min, Mart; Koel, Ants** Sensors 2019 / art. 1891, 28 p. : ill <https://doi.org/10.3390/s19081891> [Journal metrics at Scopus](#)  
[Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Multi-frequency and multi-channel bio-impedance measurement solution [Electronic resource]**

**Märten, Olev; Min, Mart; Land, Raul; Annus, Paul** Proceedings of 7th Nordic Signal Processing Symposium (NORSIG 2006) : Reykjavik, Iceland, June 7-9, 2006 2006 / [4] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4052217>

**Multi-frequency bioimpedance measurement : undersampling approach**

**Märten, Olev; Min, Mart** Proceedings of the 6th Nordic Signal Processing Symposium : NorSig 2004 : June 9-11, 2004, Espoo, Finland 2004 / p. 145-148

**Multifrequency vector impedance measurement: undersampled DFT with noise pre-filtering**

**Märten, Olev; Min, Mart** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 217-220 : ill

**Multisine and binary multifrequency waveforms in impedance spectrum measurement : a comparative study**

**Annus, Paul; Min, Mart; Ojarand, Jaan; Paavle, Toivo; Land, Raul; Ellervee, Peeter; Parve, Toomas** 5th European Conference of the International Federation for Medical and Biological Engineering : 14-18 September 2011, Budapest, Hungary 2012 / p. 1265-1268 [https://link.springer.com/chapter/10.1007/978-3-642-23508-5\\_327](https://link.springer.com/chapter/10.1007/978-3-642-23508-5_327)

**Multisine dynamic EBI spectrum analyser for in vivo experiments**

**Min, Mart; Märten, Olev; Parve, Toomas** Medical & biological engineering & computing 1999 / Suppl. 2, Proceedings of the European Medical & Biomedical Engineering Conference : EMBE'99 : November 4-7, 1999, Vienna, Austria. Part 1, p. 144-145

**Mõõtetehnilised lülitirežiimsed sünkroonmudelid : magistritöö**

**Parve, Toomas** 1992 [http://www.ester.ee/record=b2630384\\*est](http://www.ester.ee/record=b2630384*est)

**New synchronous measurement technique for intracardiac impedance analysis**

**Kuusik, Alar; Land, Raul; Min, Mart; Parve, Toomas** International journal of bioelectromagnetism 2003 / 1, Advances in

Electrocardiology : proceedings of the XXX International Congress of Electrocardiology : ICE2003 : June 11-14, 2003, Helsinki, Finland, p. 23-24

#### **Noninvasive acquisition of the aortic blood pressure waveform**

**Min, Mart; Kõiv, Hip; Priidel, Eiko; Pesti, Ksenija; Annus, Paul** Wearable devices 2019 / 16 p. : ill  
<https://doi.org/10.5772/intechopen.86065>

#### **Non-invasive method for the aortic blood pressure waveform estimation using the measured radial EBI**

**Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 121 : ill

#### **Nonlinear chirp pulse excitation for the fast impedance spectroscopy**

Ojarand, Jaan; Annus, Paul; **Land, Raul; Parve, Toomas; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2010 / 4, p. 73-76 : ill  
[https://www.researchgate.net/publication/268367878\\_Nonlinear\\_Chirp\\_Pulse\\_Excitation\\_for\\_the\\_Fast\\_Impedance\\_Spectroscopy](https://www.researchgate.net/publication/268367878_Nonlinear_Chirp_Pulse_Excitation_for_the_Fast_Impedance_Spectroscopy)

#### **Nonuniform sampling and demodulation for wideband multi-frequency bioimpedance measurements**

**Min, Mart; Bilinskis, Ivars; Artyukh, Y.; Annus, Paul; Land, Raul; Märtnens, Olev** Proceedings of the "2007 Workshop on digital Alias-free Signal Processing" (WDASP'07) : 17 April 2007, London, UK 2007 / [7] p

#### **Notes on applicability of the impedance spectroscopy for characterization of materials and substances**

**Annus, Paul; Land, Raul; Min, Mart; Reidla, Marko; Rist, Marek** I2MTC 2016 : 2016 IEEE International Instrumentation and Measurement Technology Conference : May 23-26, 2016, Taipei International Convention Center, Taipei, Taiwan : proceedings 2016 / p. 1052-1057 : ill <https://doi.org/10.1109/I2MTC.2016.7520513>

#### **Notes on signals for simultaneous multipoint impedance spectroscopy**

**Priidel, Eiko; Min, Mart; Annus, Paul** International Workshop on Impedance Spectroscopy : IWIS 2016 : September 26-28, 2016, Technische Universität Chemnitz, Germany : abstract book 2016 / p. 6-7 : ill

#### **On deviation restrictions in PLL frequency demodulators**

**Min, Mart; Männama, Vello; Paavle, Toivo** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 93-96: ill

#### **On the selection of excitation signals for the fast spectroscopy of electrical bioimpedance**

**Ojarand, Jaan; Min, Mart** Journal of electrical bioimpedance 2018 / p. 133-141 : ill <https://doi.org/10.2478/joeb-2018-0018> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **On-Desk Model-Based Study for Evaluating the Effect of Squeezing the Arteries in the Forearm on the Bioimpedance and Pressure of Blood**

**Metshein, Margus; Annus, Paul; Land, Raul; Rist, Marek; Min, Mart; Lotamõis, Kristina; Märtnens, Olev** Journal of sensors 2023 / art. 5710835 <https://doi.org/10.1155/2023/5710835> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **One bio-medical multisine measurement task: solution principles**

**Ronk, Ants; Min, Mart** BEC 2004 : proceedings of the 9th Biennial Baltic Electronics Conference : October 3-6, 2004, Tallinn, Estonia 2004 / p. 199-200 : ill

#### **Online tissue discrimination for transcutaneous needle guidance applications using broadband impedance spectroscopy**

Trebbels, Dennis; **Min, Mart** IEEE transactions on biomedical engineering 2012 / p. 494-503 : ill  
[https://www.researchgate.net/publication/51798891\\_Online\\_Tissue\\_Discrimination\\_for\\_Transcutaneous\\_Needle\\_Guidance\\_Applications\\_Using\\_Broadband\\_Impedance\\_Spectroscopy](https://www.researchgate.net/publication/51798891_Online_Tissue_Discrimination_for_Transcutaneous_Needle_Guidance_Applications_Using_Broadband_Impedance_Spectroscopy)

#### **Optimisation of multisine waveform for bio-impedance spectroscopy**

Ojarand, Jaan; **Annus, Paul; Min, Mart** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 79 : ill

#### **Optimization of electrowetting electrodes : analysis of the leakage current characteristics of various dielectric layers**

Cahill, Brian; Giannitsis, Athanasios; Land, Raul; Min, Mart BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 79-82 : ill

#### **Optimization of multisine excitation for a bioimpedance measurement device**

**Ojarand, Jaan; Annus, Paul; Min, Mart; Gorev, Maksim; Ellervee, Peeter** I2MTC 2014 IEEE International Instrumentation and Measurement Technology Conference : Instrumentation and Measurement for Sustainable Development : Radisson Montevideo Victoria Plaza Hotel & Conference Center, May 12-15, 2014, Montevideo, Uruguay : proceedings 2014 / p. 829-832 : ill

### **Optimized waveforms for synchronous signal processing**

**Annus, Paul; Min, Mart; Ojarand, Jaan** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 51-54 : ill

### **Our Journal is entering into its second decade**

**Min, Mart** Journal of electrical bioimpedance 2019 / p. 1 <https://doi.org/10.2478/joeb-2019-0001> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **PC-based vector analyzer**

**Min, Mart; Parve, Toomas** 7th International Symposium on Modern Electrical and Magnetic Measurement : Prague (Czech Republic), September 13-14, 1995. Part 1 1995 / p. 28-32: ill

### **PC-card vector analyser**

**Härm, Härmo; Haldre, Eero; Min, Mart; Parve, Toomas** Baltic electronics 1995 / 2, p. 31-32: ill

### **Phase-increment sampling in chirp signal based impedance measurements**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** Sampling Theory and Applications 2017 : 12th International Conference : Tallinn, Estonia, July 3-7 : program and abstracts 2017 / p. 65

### **Phase-increment sampling in chirp signal based impedance measurements [Electronic resource]**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [abstracts] 2017 / p. 66. [USB]

### **Phase-increment sampling in chirp signal based impedance measurements [Online resource]**

**Märtens, Olev; Min, Mart; Land, Raul; Ojarand, Jaan; Rist, Marek** 2017 International Conference on Sampling Theory and Applications (SampTA) : 12th International Conference : Tallinn, Estonia, July 3-7 : [proceedings] 2017 / p. 604-608 : ill <https://doi.org/10.1109/SAMPTA.2017.8024393>

### **Phase-locked signal processing in vector analyzer**

**Min, Mart; Parve, Toomas** Signal processing in measurement proceedings : 6th Symposium of the Technical Committee on Measurement Theory (TC7), Budapest Hungary June 10-12, 1987 1987 / p. 143-147

### **Phase-locked signal processing in measurement**

**Min, Mart; Parve, Toomas** Signal processing in measurement : 6th Symposium of the Technical Committee on Measurement Theory (TC7) : Budapest, Hungary, June 10-12, 1987 : proceedings 1988 / p. 97-101

### **PLL frequency demodulator with extended deviation**

**Min, Mart; Männama, Vello** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 109-112: ill

### **PLL-based extraction of the cardiac component from the bio-impedance signal**

**Märtens, Olev; Min, Mart; Annus, Paul; Land, Raul; Krivošei, Andrei; Metshein, Margus** 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018) : proceedings 2018 / 6 p. : ill <https://doi.org/10.1109/I2MTC.2018.8409848>

### **PLL-based measurement of bioimpedance using undersampling**

**Min, Mart; Paavle, Toivo** Proceedings of the XII International Conference on Electrical Bioimpedance & the V Conference on Electrical Impedance Tomography : ICEB/EIT 2004 : June 20-24, 2004, Gdansk, Poland. Vol. 2 2004 / p. 347-350

### **Precise eddy current impedance measurement of metal plates**

**Märtens, Olev; Gordon, Rauno; Rist, Marek; Min, Mart; Pokatilov, Andrei;** Kolyshkins, A. Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 1 2011 / p. 43-45 <https://www.taylorfrancis.com/chapters/edit/10.1201/b11339-10/precise-eddy-current-impedance-measurement-metal-plates-m%C3%A4rtens-gordon-rist-min-pokatilov-kolyshkins>

### **Precise eddy current measurements : improving accuracy of determining of electrical conductivity of metal plates**

**Märtens, Olev; Land, Raul; Gordon, Rauno; Min, Mart; Rist, Marek; Pokatilov, Andrei** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 4 2014 / p. 109-115 : ill

### **Principles for the design of impedance spectroscopy devices for identification of dynamic bio-systems = Dünaamiliste biosüsteemide impedantspektroskoopia seadmete disaini printsiibid**

**Rist, Marek** 2018 <https://digi.lib.tu.ee/i/?9260> [https://www.ester.ee/record=b4759867\\*est](https://www.ester.ee/record=b4759867*est)

### **Prof Mart Min : tehnoloogia teeb tervemaks ja rikkamaks**

**Min, Mart** Director. Inseneria 2019 / lk. 18-24 : fot [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est)

### **Pseudorandom sampling in a multi-frequency bioimpedance analyser**

**Märtens, Olev; Min, Mart** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 253-256 : ill

**"Puhas" teadus ei saa läbi ilma "tahmava" praktikata : [intervjuu TTÜ aasta teadlase Mart Miniga]**  
**Min, Mart;** Feldmann, Mati Inseneria 2009 / 10(11), lk. 18-20 : ill [https://artiklid.elnet.ee/record=b1206899\\*est](https://artiklid.elnet.ee/record=b1206899*est)

**PWM based lock-in bioimpedance measurement unit for implantable medical devices**

**Kuhlberg, Aivo; Land, Raul; Min, Mart; Parve, Toomas** Proceedings of the XVII IMEKO World Congress : June 22-27, 2003, Dubrovnik, Croatia 2003 / p. 1710-1713 : ill

**Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]**

**Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres** Tallinna Tehnikaülikooli aastaraamat 2005 2006 / lk. 430-431

**Pöördumine Haridus- ja Teadusministri ning Riigikogu kultuurikomisjoni esimehe poole : [doktorikoolide probleemist]**

**Arro, Ilmar; Kaljurand, Mihkel; Kallavus, Urve; Kübarsepp, Jakob; Lille, Ülo; Lopp, Margus; Mellikov, Enn; Min, Mart; Rang, Toomas; Rüstern, Ennu; Taklaja, Andres; Tamm, Toomas; Tammet, Tanel; Tepandi, Jaak; Ubar, Raimund-Johannes; Öpik, Andres** Mente et Manu 2005 / 18. mai. lk. 1 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**QUADRA impedance spectroscopy devices for dynamic measurements of bio-objects**

**Rist, Marek; Reidla, Marko; Märtens, Olev; Min, Mart; Annus, Paul; Land, Raul; Parve, Toomas** 34th Annual International IEEE EMBS Conference : August 28 - September 1, 2012, Hilton Bayfront Hotel in San Diego, California, USA : abstracts 2012 / p. 557 : ill

**Quantization of the response signal differences for the electrical bioimpedance measurement**

**Annus, Paul; Land, Raul; Priidel, Eiko; Metshein, Margus; Min, Mart; Märtens, Olev** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 290-293 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_73](https://doi.org/10.1007/978-981-10-5122-7_73)

**Rahvusvaheline teadusülikool - kas üksnes loosung? : intervjuu TTÜ elektroonikainstituudi juhtivateaduri professor Mart Miniga**

**Min, Mart** Mente et Manu 2010 / lk. 6 : portr [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Rate adaptive pacemaker**

**Min, Mart; Parve, Toomas** Nexus research news (Nexus academic newsletter) 1998 / 1, p. 4-6

**Realization and evaluation of the device for measuring the impedance of human body for detecting the respiratory and heart rate**

**Metshein, Margus; Parve, Toomas; Annus, Paul; Rist, Marek; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2017 / p. 36-42 : ill <http://dx.doi.org/10.5755/j01.eie.23.3.18330>

**Reconfigurable data acquisition unit for bioimpedance measurements**

**Pesonen, Vadim; Gorev, Maksim; Annus, Paul; Min, Mart; Ellervee, Peeter** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 257-260 : ill

**Rectangular wave excitation in wideband bioimpedance spectroscopy**

**Min, Mart; Paavle, Toivo; Annus, Paul; Land, Raul** IEEE International Workshop on Medical Measurements and Applications : MeMeA2009 : Cetraro, Italy, May 29-30, 2009 2009 / p. 268-271

**Relative complex permittivity and its dependence on frequency**

**Giannoukos, Georgios; Min, Mart; Rang, Toomas** World journal of engineering 2017 / p. 532-537 : ill <https://doi.org/10.1108/WJE-01-2017-0007>

**Reprogrammable data acquisition unit to reduce aliasing effect in bioimpedance measurements**

**Pesonen, Vadim; Gorev, Maksim; Annus, Paul; Min, Mart; Ellervee, Peeter** The 7th Annual FPGA World Conference, Copenhagen, Denmark, 6 September 2010 2010 / [6] p.: ill

[https://www.researchgate.net/publication/238346996\\_Reprogrammable\\_data\\_acquisition\\_unit\\_to\\_reduce\\_aliasing\\_effect\\_in\\_bioimpedance\\_measurements](https://www.researchgate.net/publication/238346996_Reprogrammable_data_acquisition_unit_to_reduce_aliasing_effect_in_bioimpedance_measurements)

**Retangular-wave chirps for broadband measurement : spectra and energy**

**Paavle, Toivo; Min, Mart** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 195-198 : ill

**Reversible electrowetting on silanized silicon nitride**

Cahill, Brian; Giannitsis, Athanasios; **Land, Raul**; Gastrock, Gunter; Pliquett, Uwe; Frense, Dieter; **Min, Mart**; Beckmann, Dieter  
Sensors and actuators B. Chemical 2010 / p. 380-386 : ill <https://www.sciencedirect.com/science/article/pii/S092540050800885X>

**Robust algorithm for the augmentation index estimation of the CAP using low order derivatives [Electronic resource]**  
**Krivošei, Andrei; Min, Mart; Lamp, Jürgen; Annus, Paul** MeMeA 2014 : IEEE International Symposium on Medical Measurements and Applications : June 11-12, 2014, ISCTE, University of Lisbon, Lisbon, Portugal : proceedings 2014 / p. 279-282 : ill. [CD-ROM]

**Rohde & Schwarz taas Eestis ning Tallinna Tehnikaülikoolis**

**Min, Mart** Tallinna Ülikoolid 1995 / 25. okt., lk. 3

**Sampling vector analyzer**

**Min, Mart; Parve, Toomas** SampTA'95 : 1995 Workshop on Sampling Theory & Applications, Jurmala, Latvia, September, 1995  
1995 / p. 208-211

**Scalable impedance spectroscopy : comparative study of sinusoidal and rectangular chirp excitations**

**Min, Mart; Parve, Toomas; Land, Raul; Annus, Paul** Lecture notes on impedance spectroscopy : measurement, modeling and applications. Vol. 2 2012 / p. 33-38

**Sensing of physiological dynamic processes using measurement of electrical bioimpedance**

**Gordon, Rauno; Kuhlberg, Aivo; Min, Mart; Parve, Toomas** Датчики и системы : сборник докладов международной конференции. Том 1 = International Conference Sensors & Systems : proceedings. Volume 1 2002 / p. 118-122 : ill

**Settling time minimization in PLL frequency synthesizers**

**Min, Mart; Männama, Vello; Paavle, Toivo** ICCSC'02 : 1st IEEE International Conference on Circuits and Systems for Communications, 26-28 June, 2002, St.Petersburg, Russia : proceedings 2002 / p. 366-369 : ill

**Shortened square wave waveforms in synchronous signal processing**

**Annus, Paul; Min, Mart** Ojarand, Jaan I2MTC 2008 : IEEE International Instrumentation and Measurement Technology Conference : May 12-15, 2008, Victoria, Canada 2008 / p. 1259-1262 : ill <https://ieeexplore.ieee.org/document/4547235>

**Short-time chirp excitations for using in wideband characterization of objects: an overview**

**Paavle, Toivo; Min, Mart; Ojarand, Jaan; Parve, Toomas** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 253-256 : ill

**Signaalid impedants-spektroskoopias : originaalsed meetodid, uudsed rakendused : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile**

**Min, Mart** Tallinna Tehnikaülikooli aastaraamat 2011 2012 / lk. 215-225

**Signal distortion and waveform conversion in a classical PLL**

**Min, Mart; Männama, Vello; Paavle, Toivo** Proceedings of the European Conference on Circuit Theory and Design ECCTD'99 : August 29-September 2, 1999, Stresa, Italy 1999 / p. 127-130

**Signals in bioimpedance measurement : different waveforms for different tasks**

**Min, Mart**; Pliquett, Uwe; Nacke, T.; Barthel, A.; **Annus, Paul; Land, Raul** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 181-184

[https://www.researchgate.net/publication/226357858\\_Signals\\_in\\_bioimpedance\\_measurement\\_Different\\_waveforms\\_for\\_different\\_tasks](https://www.researchgate.net/publication/226357858_Signals_in_bioimpedance_measurement_Different_waveforms_for_different_tasks)

**Signal-shape locked loop (SSLL) as an adaptive separator of cardiac and respiratory components of bio-impedance signal**

**Krivošei, Andrei; Min, Mart; Kukk, Vello** IEEE International Workshop on Medical Measurement and Applications : MeMeA-2007 : Warsaw, Poland, 4-5 May 2007 2007 / p. 47-52 <https://ieeexplore.ieee.org/document/4285161>

**Simple acoustical signature based coin validation**

**Märtens, Olev; Gavrijaševa, Alina; Land, Raul; Min, Mart** 2015 IEEE 9th International Symposium on Intelligent Signal Processing (WISP 2015) : Siena, Italy, 15-17 May 2015 : [proceedings] 2015 / p. 120-123 : ill

**Simple and efficient excitation signals for fast impedance spectroscopy**

**Ojarand, Jaan; Min, Mart** Elektronika ir elektrotehnika = Electronics and electrical engineering 2013 / p. 49-52 : ill

**Simple signals for system identification**

**Annus, Paul; Land, Raul; Min, Mart; Ojarand, Jaan** Fourier transform - signal processing 2012 / p. 257-276 : ill

**Simplified signal processing for impedance spectroscopy with spectrally sparse sequences**

**Annus, Paul; Land, Raul; Reidla, Marko;** Ojarand, Jaan; **Mughal, Yar M.; Min, Mart** XVth International Conference on Electrical Bio-Impedance (ICEBI) and XIVth Conference on Electrical Impedance Tomography (EIT) : 22-25 April 2013, Heilbad Heiligenstadt : abstracts 2013 / p. 76

**Simulation of the frequency and phase acquisition processes in the adaptive phase locked loop**

**Min, Mart** Internationales wissenschaftliches Kolloquium : MWK : 22-25.10.1990. Automatisierte Messsysteme 1990 / p. 259-262: fig

**Simulation of the sensitivity distribution of four-electrode impedance sensing on radial artery**

**Pesti, Ksenija; Kõiv, Hip; Min, Mart** 2019 IEEE Sensors Applications Symposium (SAS 2019), Sophia Antipolis, France, 11-13 March, 2019 : proceedings 2019 / 6 p. : ill <https://doi.org/10.1109/SAS.2019.8705976>

**Simultaneous multi-frequency bioimpedance measurement applying synchronised uniform or non-uniform sampling**

**Ronk, Ants; Min, Mart; Parve, Toomas** 13th International Conference on Electrical Bioimpedance and 8th Conference on Electrical Impedance Tomography 2007 : ICEBI2007 : August 29th - September 2nd 2007, Graz, Austria 2007 / p. 185-189

**Smart sensor systems using impedance spectroscopy**

Tränkler, Hans-Rolf; Kanoun, Olfa; **Min, Mart; Rist, Marek** Proceedings of the Estonian Academy of Sciences. Engineering 2007 / 4, p. 455-478 : ill

**Some errors during impedance measurement**

**Annus, Paul; Land, Raul; Min, Mart** Book of abstracts : 16th International Conference on Electrical Bio-Impedance : 17th Conference on Electrical Impedance Tomography : ICEBI and EIT Stockholm, 19-23 June 2016 2016 / p. 90

**Some observations on impedance and Ferranti effect**

**Land, Raul; Min, Mart; Annus, Paul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [2] p. : ill

**Spectral properties of the phase-locked harmonic analyzer**

**Min, Mart; Land, Raul** XXIII General Assembly URSI : abstracts, Prague, 28. Aug.- 05. Sept., 1990. Vol. 2 1990 / p. 334

**Switched capacitor technique in implantable lock-in bioimpedance analyzers**

**Kuhlberg, Aivo; Kukk, Vello; Min, Mart; Parve, Toomas** Scientific proceedings of Riga Technical University. 7. serija, Telecommunications and electronics 2001 / p. 59-64 : ill

**Switched-capacitor technique in implantable lock-in bioimpedance analyzers**

**Min, Mart; Parve, Toomas; Kukk, Vello; Kuhlberg, Aivo** 42-nd Riga Technical University Conference : RTUC'2001 : Section on Electronics and Telecommunications : Riga, Latvia, Oct. 11-13, 2001 : conference proceedings 2001 / p. 59-64

**Südame südames**

**Min, Mart** Sirp 2016 / lk. 35-36 : portr <http://www.sirp.ee/s1-artiklid/c21-teadus/sudame-sudames/>

**Südame täitumismahuga seostuv energiatarve : projekt ETF212 "Südame täitumismahuga seostuv energiatarve", 2007-2009**

**Min, Mart** Eesti Teadusfondi aastaraamat 2010-2011 2011 / lk. 17-18 : fot

**Südamerütmurid aitavad elada : [TTÜ teadlaste Andres Kink, Indrek Rätsep, Toomas Parve, Mart Min leuitisest]**

**Min, Mart** Horisont 2011 / 1, lk. 8-15 : ill

**Sünkroonmuundustehnika faasitundliku spektraalanalüüsi vahendina : magistritöö**

**Land, Raul** 1992 [https://www.ester.ee/record=b2630379\\*est](https://www.ester.ee/record=b2630379*est)

**Synchronous approximation and processing of sampled data signals**

**Land, Raul** 2002 [https://www.ester.ee/record=b1688698\\*est](https://www.ester.ee/record=b1688698*est)

**Synchronous sampling and demodulation in an instrument for multifrequency bioimpedance measurement**

**Min, Mart; Parve, Toomas; Ronk, Ants; Annus, Paul; Paavle, Toivo** IEEE transactions on instrumentation and measurement 2007 / 4, p. 1365-1372 : ill <https://ieeexplore.ieee.org/document/4277035>

**System level modeling of phase locked loops : behavioral analysis and parameterization**

**Paavle, Toivo** 2003 [https://www.ester.ee/record=b1809261\\*est](https://www.ester.ee/record=b1809261*est)

**Teadlane, kes sunnib haiged südamed õiges rütmis tuksuma : [TTÜ teadlase Mart Min'i leuitisest ja autasustamisest Valgetähe III klassi teenetemärgiga]**

**Min, Mart;** Lõhmus, Alo Postimees 2008 / 7. veebr., lk. 14

**Teadus on liigestest lahti**

**Min, Mart** Sirp 2019 / lk. 26-27 : ill <https://sirp.ee/s1-artiklid/c21-teadus/teadus-on-liigestest-lahti/> [https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est)  
<https://novaator.err.ee/908974/mart-min-eesti-teadus-on-liigestest-lahti>

**Teaduselt ühiskonnale : mis on spektroskoopia : vastab professor Mart Min**

**Min, Mart** KesKus 2013 / lk. 44 : ill

**Teaduspreemia tehnikateaduste alal teadustöö "Signaalid impedantspektroskoopias : originaalsed meetodid, uudsed rakendused" eest : Mart Min**

**Min, Mart** Eesti Vabariigi teaduspreemiad 2011 2011 / lk. 80-91 : portr., ill

**Tehnikaülikool võitis EL hanke eurode tuvastamiseks : [intervjuu TTÜ elektroonikainstituudi direktori Toomas Rangiga ja professor Mart Min'iga]**

**Rang, Toomas; Ummelas, Mart; Min, Mart** Mente et Manu 2008 / 30. jaan., lk. 3 [https://artiklid.elnet.ee/record=b1118469\\*est](https://artiklid.elnet.ee/record=b1118469*est)

**Tervisekassa podcast : Kuidas liikumine aitab värskes püsida? - Doris Vahtrik ja Mart Min**

**Min, Mart; Vahtrik, Doris** postimees.ee 2023 [Tervisekassa podcast : Kuidas liikumine aitab värskes püsida? - Doris Vahtrik ja Mart Min](#)

**Thoracic bioimpedance as a basis for pacing control**

**Min, Mart; Parve, Toomas; Kink, Andres** Electrical bioimpedance methods : applications to medicine and biotechnology 1999 / p. 155-166 (invited): ill

**Thoracic bio-impedance as a basis for pacing control**

**Min, Mart; Parve, Toomas; Märtin, Hannes; Kuhlberg, Aivo** Proceedings of X International Conference on Electrical Bio-Impedance : ICEBI'98 : 5-9 April 1998, Barcelona 1998 / p. 493-496

**Time optimal design of the precision third order tracking systems**

**Min, Mart** Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section A. Section M / Tallinn Technical University 1992 / p. 128-134: ill

**Time-domain manipulating of short-time chirps**

**Paavle, Toivo; Min, Mart** BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 129-132 : ill

**Time-frequency analysis of biological matter using short-time chirp excitation**

**Min, Mart; Paavle, Toivo; Ojarand, Jaan** 2011 20th European Conference on Circuit Theory and Design (ECCTD) : Linköping, Sweden, August 29-31, 2011 : proceedings 2011 / p. 298-301 : ill <https://ieeexplore.ieee.org/document/6043345>

**Time-frequency impedance spectroscopy : excitation considerations**

**Land, Raul; Annus, Paul; Min, Mart** Proceedings of the 15th IMEKO TC4 International Symposium on Novelties in Electrical Measurements and Instrumentations : Iasi, Romania, September 18-22, 2007. 1 2007 / p. 328-331

**TMS320F2811-based multi-frequency multi-channel bio-impedance measurement device**

**Märtens, Olev; Min, Mart; Land, Raul; Liimets, Aivar; Trampärk, Harri; Annus, Paul** EDERS 2008 : 3rd European DES Education & Research Symposium : proceedings : Tel Aviv, Israel, 18th June 2008 / p. 179-183. [CD-ROM]

**TMS320F28069-based impedance spectroscopy with binary excitation**

**Rist, Marek; Reidla, Marko; Min, Mart; Parve, Toomas; Märtens, Olev; Land, Raul** EDERC 2012 : proceedings of the 5th European DSP in Education & Research Conference : 13-14 September 2012, Amsterdam, The Netherlands 2012 / p. 217-220  
<https://ieeexplore.ieee.org/document/6532258>

**TTÜ leiutis pakub huvi suurele USA meditsiinifirmale : [TTÜ professori Mart Mini ja tema kolleegide leiutis]**

**Min, Mart; Rand, Erik** Eesti Päevaleht 2009 / 30. okt., lk. 4 <https://epl.delfi.ee/artikkel/51181213/ttu-leiutis-pakub-huvi-suurele-usa-meditsiinifirmale>

**TTÜ sai esimese patendi USA-st : [TTÜ professori Mart Mini ja tema kolleegide väljatöötatud tehnoloogia]**

**Min, Mart; Roonemaa, Holger** Eesti Päevaleht 2010 / 17. juuni, lk. 6

**Tunne kolleegi. Enn Velmre : [intervjuu Enn Velmrega]**

**Velmre, Enn; Rang, Toomas; Haldre, Eero; Oras, Anne; Min, Mart** Avaja 2003 / lk. 3 : fot

**Tänavavalgustuse tsentraalne juhtimine ja kontroll GSM-võrgu abil**

**Annus, Paul; Haldre, Eero; Min, Mart** Raadiotehnika 2005 : XII rahvusvahelise telekommunikatsioonipäeva materjalid 2005 / lk. 133-137 : ill

**Täpsete järgivsüsteemide dünaamika uurimine : magistritöö**

Tammemägi, Jaak 1995 [https://www.ester.ee/record=b2078796\\*est](https://www.ester.ee/record=b2078796*est)

#### **Usage of microfluidic lab-on-chips in biomedicine**

**Giannitsis, Athanasios; Min, Mart** BEC 2010 : 2010 12th Biennial Baltic Electronics Conference : proceedings of the 12th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 4-6, 2010, Tallinn, Estonia 2010 / p. 249-252

#### **Using neural networks to model self-immune disease in terms of the alterations of the dynamic electrical impedance**

**Giannoukos, Georgios; Min, Mart** Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014) : Rhodes, Greece, 22-28 September 2014 2015 / p. 850001-1 - 850001-4 <http://dx.doi.org/10.1063/1.4913056>

#### **Using of chirp excitation for bioimpedance estimation : theoretical aspects and modeling**

**Paavle, Toivo; Min, Mart; Parve, Toomas** BEC 2008 : 2008 International Biennial Baltic Electronics Conference : proceedings of the 11th Biennial Baltic Electronics Conference : Tallinn University of Technology : October 6-8, 2008, Tallinn, Estonia 2008 / p. 325-328 : ill

#### **Variation of cardiac and respiratory waveform on human thorax in the case of inductive coupling**

**Metshein, Margus; Annus, Paul; Land, Raul; Krivošei, Andrei; Ojarand, Jaan; Aabloo, Alvo; Min, Mart** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 671-674 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_168](https://doi.org/10.1007/978-981-10-5122-7_168)

#### **Waveform filtering using adaptive filters**

**Ronk, Ants; Min, Mart** Proceedings of the IEEE International Workshop on Intelligent Signal Processing : September 4-7, 1999, Budapest, Hungary 1999 / p. 210-214

#### **Wearable data acquisition system of multimodal physiological signals for personal health care**

**Annus, Paul; Samiepour, Ali; Rist, Marek; Ruiso, Indrek; Krivošei, Andrei; Land, Raul; Parve, Toomas; Min, Mart** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 107-112 : ill

#### **Wearable solutions for monitoring cardiorespiratory activity = Kehal kantavad vahendid kardiorespiatoorse aktiivsuse jälgimiseks**

**Metshein, Margus** 2018 <https://digi.lib.ttu.ee/i/?9961> [https://www.ester.ee/record=b5140297\\*est](https://www.ester.ee/record=b5140297*est)

#### **Wearable system for non-invasive and continuous monitoring central aortic pressure curve and augmentation index**

**Krivošei, Andrei; Lamp, Jürgen; Min, Mart; Uuetoa, Tiina; Uuetoa, Hasso; Annus, Paul** pHealth 2013 : proceedings of the 10th International Conference on Wearable Micro and Nano Technologies for Personalized Health : June 26-28, 2013, Tallinn, Estonia 2013 / p. 101-106 : ill

#### **Vektoranalizatorok a tehnikai es orvosi diagnosztikaban**

**Min, Mart** Mérés és automatika: megjelenik a Méréstechnikai és Automatizálási Tudományos Egyesület Szerkesztésében 1989 / p. 55-61

#### **Wideband excitation signals for fast impedance spectroscopy of biological objects = Lairiba ergutussignaaliid biooogiliste objektide kiiretoimelise bioimpedants-spektroskoopia jaoks**

**Ojarand, Jaan** 2012 [https://www.ester.ee/record=b2896512\\*est](https://www.ester.ee/record=b2896512*est)

#### **Wideband object identification with rectangular wave chirp excitation**

**Paavle, Toivo; Min, Mart; Annus, Paul; Birjukov, Andrei; Land, Raul; Parve, Toomas** ECCTD'09 : European Conference on Circuit Theory and Design 2009 : Antalya, Turkey, August 23-27, 2009 2009 / p. 421-424 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5275007>

#### **Visualizing transplanted muscle flaps using minimally invasive multi-electrode bioimpedance spectroscopy**

**Gordon, Rauno; Zorkova, Valeria; Min, Mart; Rätsep, Indrek** The XIVth International Conference on Electrical Bioimpedance and the 11th Conference on Biomedical Applications of EIT, Gainesville - Florida, Apr. 4-8, 2010 2010 / [4] p <https://iopscience.iop.org/article/10.1088/1742-6596/224/1/012103>

#### **Visualizing transplanted muscle flaps using minimally invasive multi-electrode bioimpedance spectroscopy**

**Gordon, Rauno; Zorkova, Valeria; Min, Mart; Rätsep, Indrek** Journal of physics : conference series 2010 / 1, p. 012103 <https://iopscience.iop.org/article/10.1088/1742-6596/224/1/012103>

#### **Üks küsimus : milline on teie jaoks ideaalne ülikool?**

Mente et Manu 2020 / lk. 24-25 , 34-35, 44-45 : portr [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **Анализ системы фазовой автоподстройки частотными методами**

**Min, Mart** Анализ и моделирование технических устройств и систем АСУТП 1978 / с. 55-64 : илл

[https://www.ester.ee/record=b2191003\\*est](https://www.ester.ee/record=b2191003*est) <https://digikogu.taltech.ee/et/Item/00fbff38-ccfb-411c-ad55-0c6b943b766b>

**Аналоговая модель для анализа влияния случайных воздействий на работу системы автоматической синфазировки синхронного детектора**

**Min, Mart** Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 89-94 : илл

[https://www.ester.ee/record=b2190987\\*est](https://www.ester.ee/record=b2190987*est) <https://digikogu.taltech.ee/et/Item/b7c66054-0b4f-4684-9453-442bc7e6e200>

**Астатическая система ФАП с цифровым интегратором**

**Land, Raul; Min, Mart** Моделирование и управление в системах технической кибернетики 1987 / с. 37-42

**Векторные анализаторы - современные средства анализа электрических сигналов**

**Min, Mart; Parve, Toomas** 1985

**Векторные вольтметры и анализаторы**

**Min, Mart** Измерение и моделирование в электронике 1987 / с. 29-48

**Динамический синтез высокоточных следящих систем**

**Min, Mart** Расчет и проектирование систем технической кибернетики 1983 / с. 35-40

**Динамический синтез системы ФАП третьего порядка**

**Kiive, Rein; Min, Mart; Paavle, Toivo** Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио. [1], Секция: Информационно-измерительная техника 1981 / с. 9-10 : ил [https://www.ester.ee/record=b1310782\\*est](https://www.ester.ee/record=b1310782*est)

**Динамический синтез следящих систем третьего порядка**

**Land, Raul; Mehik, Allan; Min, Mart XXV** студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 41-42 [https://www.ester.ee/record=b1322629\\*est](https://www.ester.ee/record=b1322629*est)

**Исследование динамики и помехоустойчивости системы фазовой автоподстройки при помощи моделирования на АВМ**

**Min, Mart** Всесоюзная научно-техническая конференция "Развитие и использование аналоговой и аналого-цифровой вычислительной техники" : тезисы докладов 1981 / с. 141-142

**Квадратурные фазочувствительные анализаторы, их построение и опыт применения**

**Min, Mart** Тезисы докладов всесоюзной научно-технической конференции "Современные проблемы фазоизмерительной техники и ее применения" : 18-22 сент. 1989 г. 1989 / с. 19

**Квадратурный перемножитель для двухканального фильтра**

**Min, Mart; Parve, Toomas** Избирательные системы с обратной связью : межвузовский тематический научный сборник 1983 / с. 127-129 [https://www.ester.ee/record=b2347952\\*est](https://www.ester.ee/record=b2347952*est)

**Моделирование автоматического синфазатора для синхронного детектора**

**Min, Mart** Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 75 [https://www.ester.ee/record=b1322122\\*est](https://www.ester.ee/record=b1322122*est)

**Моделирование детерминированной системы ФАПЧ на АВМ**

**Min, Mart; Paavle, Toivo** Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 67-71 : илл [https://www.ester.ee/record=b2190710\\*est](https://www.ester.ee/record=b2190710*est) <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

**О применении системы фазовой автоподстройки для управления синхронным детектором**

**Min, Mart; Parve, Toomas** Всесоюзная научно-техническая конференция "Дальнейшее развитие и внедрение новой техники приемных устройств" : тезисы докладов и сообщений 1977 / с. 102-103

**О схемных реализациях бездрейфовых сглаживающих фильтров**

**Parve, Toomas; Min, Mart** Анализ и моделирование технических устройств и систем АСУТП 1977 / с. 95-101 : илл [https://www.ester.ee/record=b2190987\\*est](https://www.ester.ee/record=b2190987*est) <https://digikogu.taltech.ee/et/Item/b7c66054-0b4f-4684-9453-442bc7e6e200>

**Обеспечение адаптивности векторного анализатора к свойствам входных сигналов при помощи встроенного микропроцессора**

**Min, Mart; Ronk, Ants; Haldre, Eero** Всесоюзная научно-техническая конференция «Проблемы развития аппаратных и программных средств вычислительной техники для машинного моделирования»: тезисы докладов 1987 / с. 102

**Определение полосы затягивания системы ФАПЧ второго порядка**

**Min, Mart; Paavle, Toivo** Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 73-77 : илл [https://www.ester.ee/record=b2190710\\*est](https://www.ester.ee/record=b2190710*est) <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

### **Определение полосы однопериодного захвата системы ФАП третьего порядка**

**Min, Mart; Paavle, Toivo** Расчет и проектирование приборов, устройств и систем технической кибернетики 1980 / с. 125-132 : илл [https://www.ester.ee/record=b1281890\\*est](https://www.ester.ee/record=b1281890*est) <https://digikogu.taltech.ee/et/Item/8e0abfe2-9020-4ebd-85d1-fd67de0d1b30>

### **Оценка качества громкоговорителей в обычных помещениях и некоторые вопросы применения векторвольтметра для этой цели**

**Trampärk, Harri; Min, Mart** Синхронные измерительные преобразователи 1984 / с. 63-72

### **Переходные процессы в неавтономной системе ФАП третьего порядка**

**Land, Raul; Min, Mart** Анализ и синтез сложных систем и цепей с помощью ЭВМ 1986 / с. 71-80

### **Переходные процессы в системе ФАПЧ с апериодическим фильтром низких частот**

**Min, Mart** Труды по электротехнике и автоматике : сборник статей. 14 1976 / с. 41-44 : илл [https://www.ester.ee/record=b2190768\\*est](https://www.ester.ee/record=b2190768*est) <https://digikogu.taltech.ee/et/Item/aa35e320-87b1-405b-9cac-3b90c51867d1>

### **Помехоустойчивость и динамика фазовых процессов в синхронных измерительных преобразователях : автореферат ... кандидата технических наук (05.11.05)**

**Min, Mart** 1984 [https://www.ester.ee/record=b2083669\\*est](https://www.ester.ee/record=b2083669*est)

### **Расширение области применения ключевых синхронных детекторов**

**Min, Mart; Parve, Toomas** Тезисы докладов республиканской научно-технической конференции, посвященной Дню радио, Таллин, 1977 1977 / с. 106 [https://www.ester.ee/record=b1313776\\*est](https://www.ester.ee/record=b1313776*est)

### **Синхронный преобразователь (его варианты) : [А. с. 1589371]**

**Min, Mart; Parve, Toomas; Sillamaa, Hanno** Открытия. Изобретения 1990 / 32, с. 247

### **Слаживающие фильтры с равноволновой переходной характеристикой**

**Parve, Toomas; Min, Mart** Избирательные системы с обратной связью : межвузовский тематический научный сборник 1983 / с. 52-55 [https://www.ester.ee/record=b2347952\\*est](https://www.ester.ee/record=b2347952*est)

### **Способ квадратурного перемножения исследуемого сигнала с опорным, использующий аппроксимацию по уолшу**

**Min, Mart; Parve, Toomas** Труды по электротехнике и автоматике : сборник статей. 13 1975 / с. 79-83 : илл [https://www.ester.ee/record=b2190710\\*est](https://www.ester.ee/record=b2190710*est) <https://digikogu.taltech.ee/et/Item/ffbd63ed-06d6-4bbb-9468-118f743cc87f>

### **Способ моделирования системы ФАПЧ, работающий в условиях случайных воздействий, с помощью ЭВМ**

**Min, Mart** Proceedings of the Summer Symposium on Circuit Theory, SSCT 77, House of Culture, Kladno-Sítná, September 5. - 9. 1977 1977 / с. [?]

### **Способ синхронного преобразования в измерительной технике**

**Min, Mart** Синхронные измерительные преобразователи 1984 / с. 3-15

### **Универсальный прибор для селективных амплитудных и фазовых измерении**

**Min, Mart** Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 76 [https://www.ester.ee/record=b1322122\\*est](https://www.ester.ee/record=b1322122*est)

### **Устройство для проверки электрических схем : [А.с. 1705771]**

**Männama, Vello; Laansoo, Andres; Min, Mart** Изобретения 1992 / 2, с. 177

### **Устройство для синхронного преобразования (его варианты) : [А.с. 1589372]**

**Min, Mart; Parve, Toomas; Kukk, Vello; Land, T.** Открытия. Изобретения 1990 / 32, с. 247-248

### **Устройство для формирования квадратурных гармонических колебаний (автоское свидетельство № 752369)**

**Min, Mart; Parve, Toomas** Открытия, изобретения, промышленные образцы, товарные знаки : официальный бюллетень Комитета по делам изобретений и открытий при Совете Министров СССР 1980 / с. 231 [https://yandex.ru/patents/doc/SU752369A1\\_19800730](https://yandex.ru/patents/doc/SU752369A1_19800730)

### **Фазовая автоподстройка координатных сигналов в векторных измерительных преобразователях**

**Min, Mart** Анализ и синтез сложных систем и цепей с помощью ЭВМ 1985 / с. 103-110

### **Электротехника и автоматика**

**Rüstern, Ennu; Aarna, Olav; Rebane, Jüri; Min, Mart; Raiend, Kullo; Kiitam, Andres; Saks, Eva; Vendelin, Juhan; Leis, Paul; Salum, Kaja; Keevallik, Andres; Kitsnik, Peeter; Sudnitsõn, Aleksander; Ubar, Raimund-Johannes; Viilup, Agu; Evertson, Teet** 1983 [https://www.ester.ee/record=b1288991\\*est](https://www.ester.ee/record=b1288991*est)

**Электротехника и автоматика**

Bachverk, Aleksander; Min, Mart; Parve, Toomas; Land, Raul; Lipping, Kalle; Võrno, Toivo; Logunov, Gennadi; Rüstern, Ennu; Peterson, Jaak; Trumm, Tõnu; Trampärk, H.; Sillamaa, Hanno 1984 [https://www.ester.ee/record=b1356648\\*est](https://www.ester.ee/record=b1356648*est)

**Электротехника и автоматика**

Seppel, Simmu; Sillamaa, Hanno; Aarna, Olav; Raiend, Kullo; Kukk, Vello; Rüstern, Ennu; Vendelin, Jelena; Leppikson, Viktor; Vijar, Merike; Kurm, Matti; Min, Mart; Parve, Toomas; Väljamäe, Gunnar; Proode, Ülo; Tilk, Johan; Gordon, Boris; Einer, Lauri; Rimmel, Ülo; Sepp, Ülo; Uutma, Toomas; Annus, Arno; Bachverk, Aleksander; Kiitam, Andres; Saks, Eva; Sildaru, Kalev 1985 [https://www.ester.ee/record=b1302188\\*est](https://www.ester.ee/record=b1302188*est)

**Электротехника и автоматика**

Mägi, Harri; Rüstern, Ennu; AArna, Olav; Kiitam, Andres; Land, Raul; Min, Mart; Ronk, Ants; Parve, Toomas; Rang, Toomas; Mahhitko, V.P.; Šendrik, M.G.; Tamm, Boris, inform. 1986 [https://www.ester.ee/record=b1296468\\*est](https://www.ester.ee/record=b1296468*est)

**Электротехника и автоматика**

Laansoo, Ants; Aarna, Olav; Metsanurm, Margus; Teder, Toomas; Kiitam, Andres; Saks, Eva; Land, Raul; Min, Mart; Rimmel, Ülo; Ronk, Ants; Rang, Toomas 1987 [https://www.ester.ee/record=b1221893\\*est](https://www.ester.ee/record=b1221893*est)

**Электротехника и автоматика**

Kukk, Vello; Tamm, Uljas; Pikkov, Otto; Min, Mart; Velmre, Enn; Udal, Andres; Nurste, Ivar; Freidin, Boris; Rang, Toomas; Opotski, Aleksei; Laansoo, Ants; Männama, Vello; Järvalt, Aldur; Gurjanov, Boris; Lavrov, Mihhail; Belkina, I.I.; Plakk, Paul; Plakk, Peeter; Plakk, T. 1987 [https://www.ester.ee/record=b1224910\\*est](https://www.ester.ee/record=b1224910*est)